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WHERE TO WRITE

Admission
Information and Applications for Admission
Office of Admissions
Wetherby Administration Building
Western Kentucky University
Bowling Green, Kentucky 42101

American College Test
Information and a list of test centers and dates may be obtained from high school counselors or the Counseling Services Center, Western Kentucky University, Bowling Green, Kentucky 42101

Housing
Director of Housing
Potter Hall
Western Kentucky University
Bowling Green, Kentucky 42101

Student Financial Aid
Office of Student Financial Aid
Wetherby Administration Building
Western Kentucky University
Bowling Green, Kentucky 42101

Graduate College
Dean of the Graduate College
Cravens Graduate Center and Library
Western Kentucky University
Bowling Green, Kentucky 42101

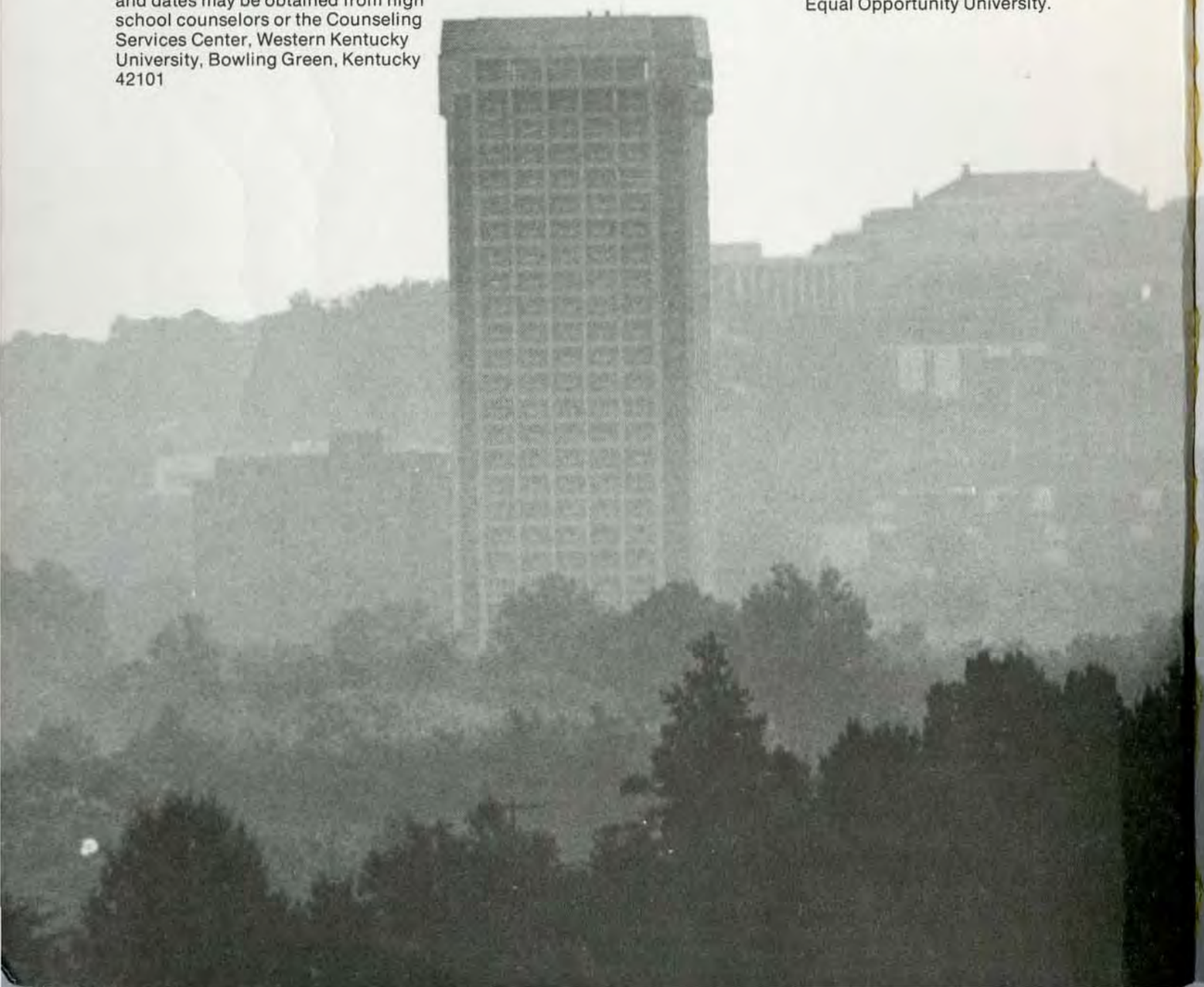
GENERAL INFORMATION

This bulletin was prepared by Western Kentucky University, edited by the Office of the Dean of Scholastic Development, designed by the Division of Media Services, and paid from state funds (KRS57.375).

Copies of this catalog may be obtained by writing the Office of Admissions, Western Kentucky University, Bowling Green, Kentucky 42101.

All statements in this publication are announcements of present policy only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

Western Kentucky University is an Equal Opportunity University.



WESTERN KENTUCKY UNIVERSITY

is accredited by
Southern Association of Colleges and Schools
and is a member of
Association of State Colleges and Universities
American Association of Colleges for Teacher Education
American Association of University Women
American Council on Education
National University Extension Association
Certain programs of the University are accredited by
National Council for Accreditation of Teacher Education
National Association of Schools of Music
National League for Nursing
American Chemical Society
Engineers' Council for Professional Development, Inc.
American Dental Association

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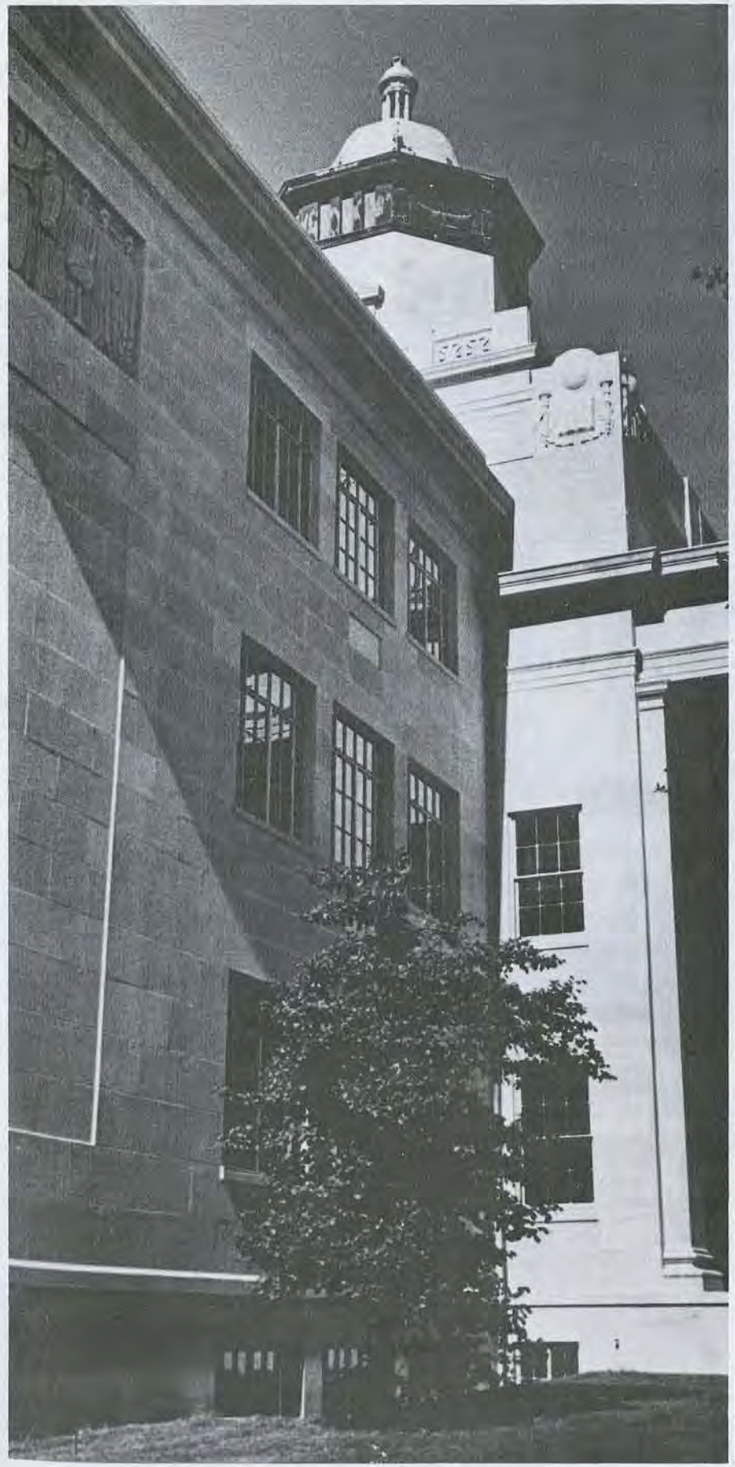


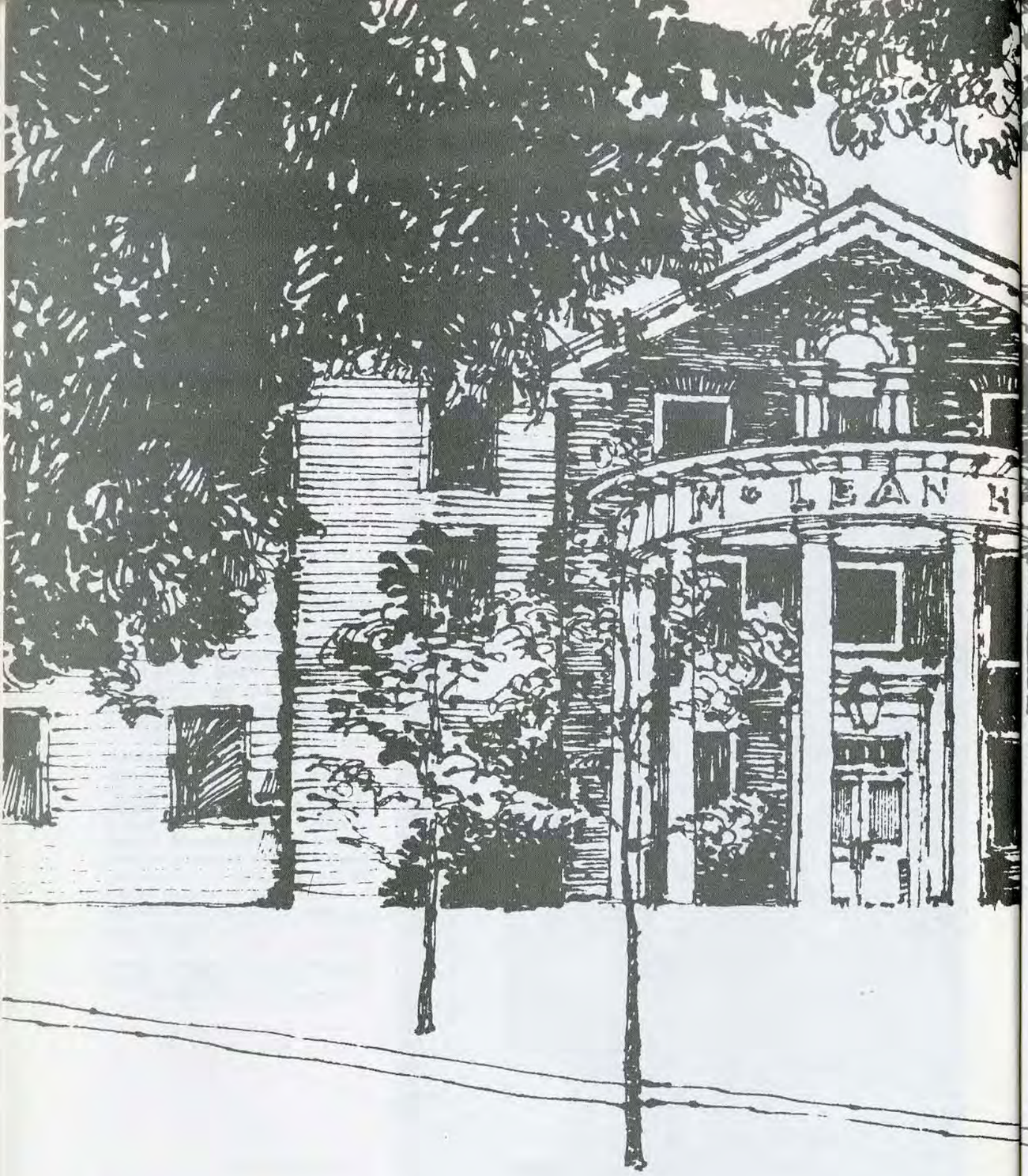
WESTERN IN SUMMARY

Western Kentucky University is located in Bowling Green, Kentucky, approximately 110 miles south of Louisville and 65 miles north of Nashville, Tennessee. Having a population of about 48,000, Bowling Green is easily accessible. U.S. Highways 31-W and Interstate 65 intersect with U.S. Highways 68 and 231 at Bowling Green, and the Cumberland and Green River Parkways provide additional easy highway access to Bowling Green. The L&N Railroad and Amtrak pass through the city, while two bus lines serve the community. There are scheduled flights each day from the city airport.

Western's undergraduate division provides four-year programs leading to the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Science, the Bachelor of Science in Nursing and the Bachelor of Music Degrees. Fifty-one (51) academic majors, sixty-two (62) academic minors, and forty-seven (47) areas of concentration are available. A number of professional and pre-professional curricula provide additional options.

Thirty-seven (37) associate degree programs are offered leading to the Associate of Arts degree, Associate of Science degree and Associate of Liberal Studies degree. Three certificate programs are also offered.

The Graduate College offers the Master of Arts, Master of Arts in Education, Master of Business Administration, Master of Science, Master of Music, Master of Public Service and the Master of Science in Engineering Physics. Western also offers the Specialist Degree and Rank I and II programs. Joint doctoral degree programs are offered in cooperation with the University of Kentucky and cooperative doctoral degree programs with the University of Louisville. Consult the Graduate College catalog for further information.



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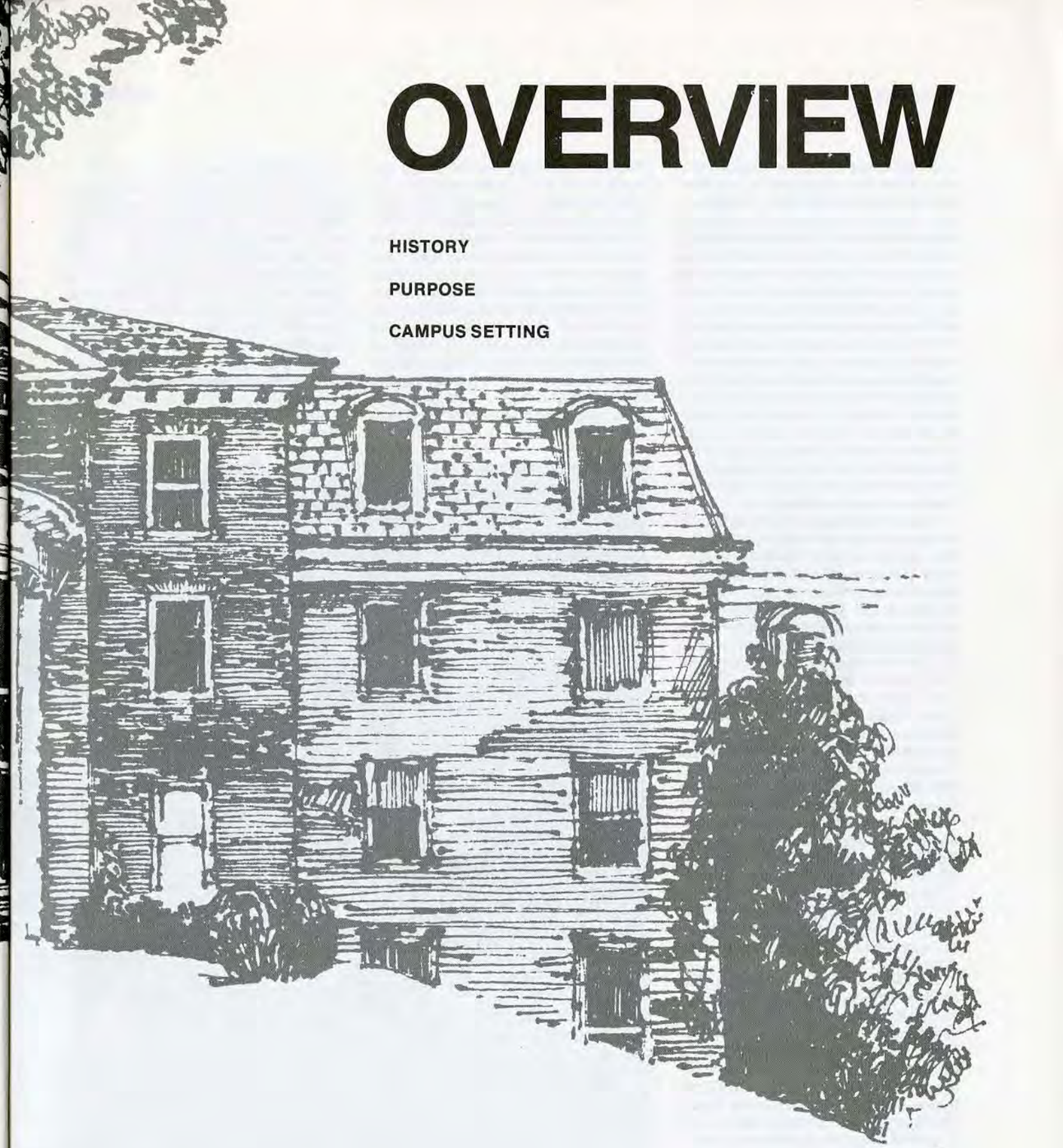


HISTORY

In 1906 the Kentucky General Assembly enacted legislation establishing the Western Kentucky State Normal School, a two-year institution. After Governor J. C. Beckham signed the bill into law, the Normal School Commission chose Bowling Green as the site of the new school. The Southern Normal School of Bowling Green, which had been founded originally in 1875 as the Glasgow Normal Institute, was transferred to the state and provided the educational foundation for the new Western Kentucky State Normal School in Bowling Green. From 1907 until 1911, the new school used the building and grounds of the Southern Normal School. However, in 1911, it was moved to College Heights, its present location.

Western's educational heritage increased when the Potter College for Young Ladies, which was founded in 1887, became part of the State Normal School in 1909. In 1922, Western became a four-year institution known as the Western Kentucky State Normal School and Teachers College. The first degrees were awarded by the institution in 1924.

In 1928, Western's Board of Regents again added to its educational heritage by leasing the properties of the Ogden College, which had been founded by Robert W. Ogden in 1877. The Ogden College then became the Ogden Department of Science.

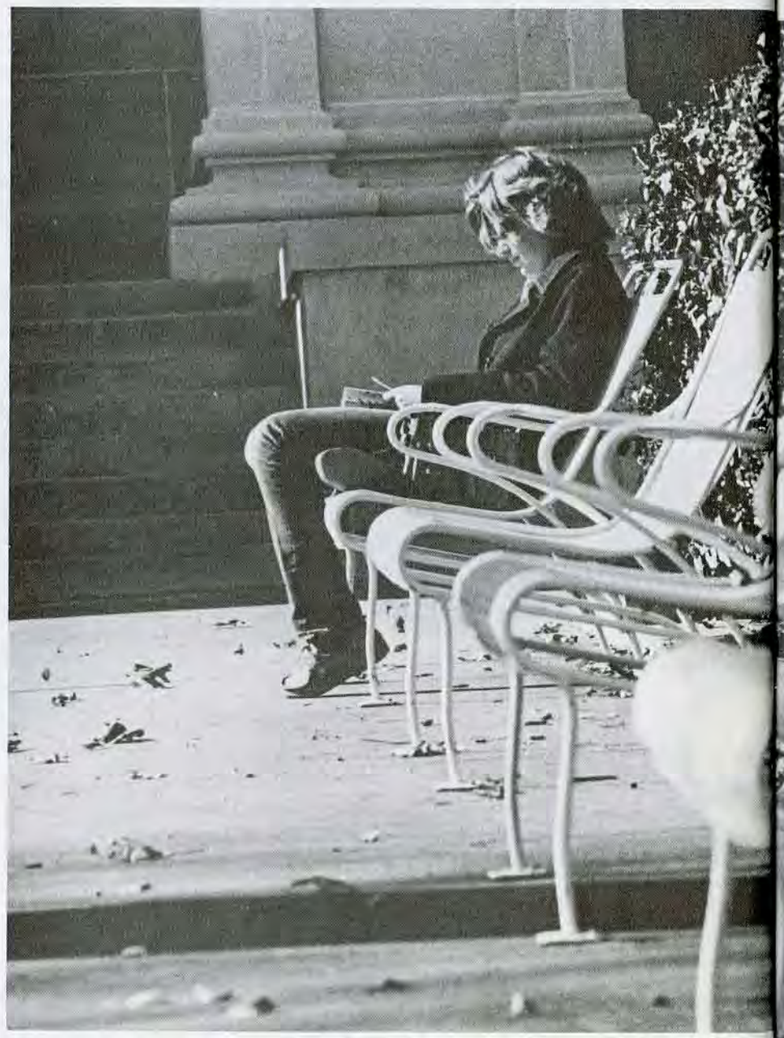
In 1930, the Kentucky General Assembly removed the words "Normal School" from the title, making it Western Kentucky State Teachers College. In 1931, Western began offering the Master of Arts Degree. This program was discontinued in 1936, but was resumed in 1941 and has continued since.

In 1948, the Kentucky General Assembly removed the word "Teachers" from the name, thus making it the Western Kentucky State College. Then, in 1963, Western expanded its educational offerings by absorbing the Bowling Green College of Commerce, formerly known as the Bowling Green Business University.

In 1964, the Bowling Green College of Commerce, the Bowling Green Community College and the Graduate School were established as separate colleges within Western's structure. In 1965, Western's Board of Regents approved the formation of three new colleges — the College of Education, the Potter College of Liberal Arts and the Ogden College of Science and Technology — for a total of six colleges in the structure of Western. Finally, in 1969, the College of Applied Arts and Health was created.

On June 16, 1966, Western achieved university status and thus became Western Kentucky University. The colleges which now constitute Western Kentucky University are the Potter College of Arts and Humanities, the College of Applied Arts and Health, the College of Business Administration, the College of Education, the Ogden College of Science and Technology, the Graduate College and the Bowling Green Community College.

Since its formation in 1906, Western's six presidents — Dr. Henry Hardin Cherry, Dr. Paul L.Garrett, Dr. Kelly Thompson, Dr. Dero G. Downing, Dr. John D. Minton and Dr. Donald W. Zacharias — all have strived to make Western a highly respected center of learning where qualified students may receive general and specialized higher education at the undergraduate and the graduate levels. Today, Western Kentucky University proudly serves the educational needs of thousands of students from Kentucky and its neighboring states.



PURPOSE

Western Kentucky University is a center of learning, established and supported by the Commonwealth, where qualified students may receive general and specialized higher education at the undergraduate and graduate levels. Western makes available for the citizens of the Commonwealth a broad spectrum of educational opportunities within an academic climate intended to promote the legitimate objectives of liberal education, democratic citizenship, character development and the pursuit of excellence. Within this context, the University encourages the intellectual advancement of the students enrolled in the various undergraduate and graduate degree programs.

Western provides educational opportunities for undergraduate and graduate students that will prepare them for careers in the arts and sciences, education, government service, business, industry, health, agriculture and other broad fields along with special professional and preprofessional curricula for technical careers and preparation for further professional training. The University provides opportunities for members of the academic community to engage in research activities. Emphasis is given to research related to a faculty member's academic specialization as a logical and necessary extension of the instructional programs and as a means to expand knowledge in the academic field. Emphasis is also given to research that is related to regional and state needs. Such research may grow out of an academic specialization or may be conducted in cooperation with units of government, business, industry, agencies and organizations.

The University's program of public service includes on-campus and field-based activities, technical services, workshops, seminars, cultural experiences and opportunities for adult and continuing education. The expertise of individuals or groups within the academic community remains available to meet the particular needs of the area.

To achieve these purposes, Western Kentucky University reaffirms the institutional commitment to the educational ideals declared by Dr. Henry Hardin Cherry, the founder and first president. Three of these ideals formulated by Dr. Cherry are:

to be a live school and to impart to its students a burning zeal to do and to be something;

to let the reputation of the school be sustained by real merit;

to lead the student to understand that a broad and liberal education is essential to the highest degree of success in any endeavor of life.

The Seal of the University contains two additional ideals of the University. "Life, More Life" stresses that education should increase the individual's power and desire to live a life of excellence. "The Spirit Makes the Master," the motto of the University, expresses the belief that "Spirit" — that is, attitude, motivation and will to achieve — is a primary condition in the mastery of any discipline, task or problem. It challenges all to exert themselves completely in the pursuit of truth and excellence.

CAMPUS SETTING

Located on a hill overlooking the city of Bowling Green, the Western campus is acclaimed as one of the most beautiful in the nation. The portion of the campus known as College Heights commands an impressive view of the Barren River Valley and is a distinctive landmark of the city. There are 66 major buildings on the approximately 200-acre main campus, with another 785 acres on the University Farm.

ACADEMIC BUILDINGS

The **Academic-Athletic Building — E. A. Diddle Arena** contains academic offices, classrooms, an Olympic-size swimming pool and the basketball arena.

The **Academic-Athletic Building #2 — L. T. Smith Stadium** houses academic offices, classrooms, handball courts, gymnastics area and the stadium for football and track.

The **Academic Complex** consists of three wings. The Robert Cochran Wing houses academic offices, classrooms, radio station WKYU and television studios. The E. H. Canon Wing contains academic offices, classrooms and a faculty dining room operated by the Department of Home Economics and Family Living. The L. Y. Lancaster Wing serves as home for the University Hospital and dental hygiene facilities. The Academic Complex serves the College of Applied Arts and Health and the Division of Academic Services.

Finley C. Grise Hall provides academic offices and classrooms for the Bowling Green College of Business and Public Affairs.

The **Kelly Thompson Complex for Science** consists of a three-story north wing, a four-story central wing and the Hardin Planetarium. It provides space for the Ogden College of Science and Technology.

The **Industrial Education Building** contains classrooms for the Department of Industrial Education and Technology.

The **Jones-Jaggers Laboratory School** serves the teacher education program in the College of Education.

Snell Hall and its adjoining Italian Garden are gifts from the late Perry Snell, an alumnus of Ogden College. The Ogden College of Science and Technology utilizes the building.

Henry Hardin Cherry Hall, a landmark at Western and in Bowling Green, provides space for several departments of the Potter College of Arts and Humanities.

The **College of Education Building** serves the College of Education with academic offices, classrooms, an education library and resource center, a film library, audio-visual facilities, a copy center and an auditorium.

Gordon Wilson Hall contains academic offices and classrooms for the Center for Intercultural and Folk Studies. A theatre which is used for theatrical productions by theatre majors is located in this building.

The **Ivan Wilson Center for Fine Arts** provides space for the fine arts area of the Potter College of Arts and Humanities. Academic offices, classrooms, a recital hall, a theatre and an art gallery are located in this building.

The **Environmental Sciences and Technology Building** houses departments from the College of Education and the Ogden College of Science and Technology. Two greenhouses are located behind the building.

Science and Technology Hall provides space for departments from the College of Applied Arts and Health and the Ogden College of Science and Technology.

The **Rock House** contains academic offices, as well as a center and offices for International Student Affairs.

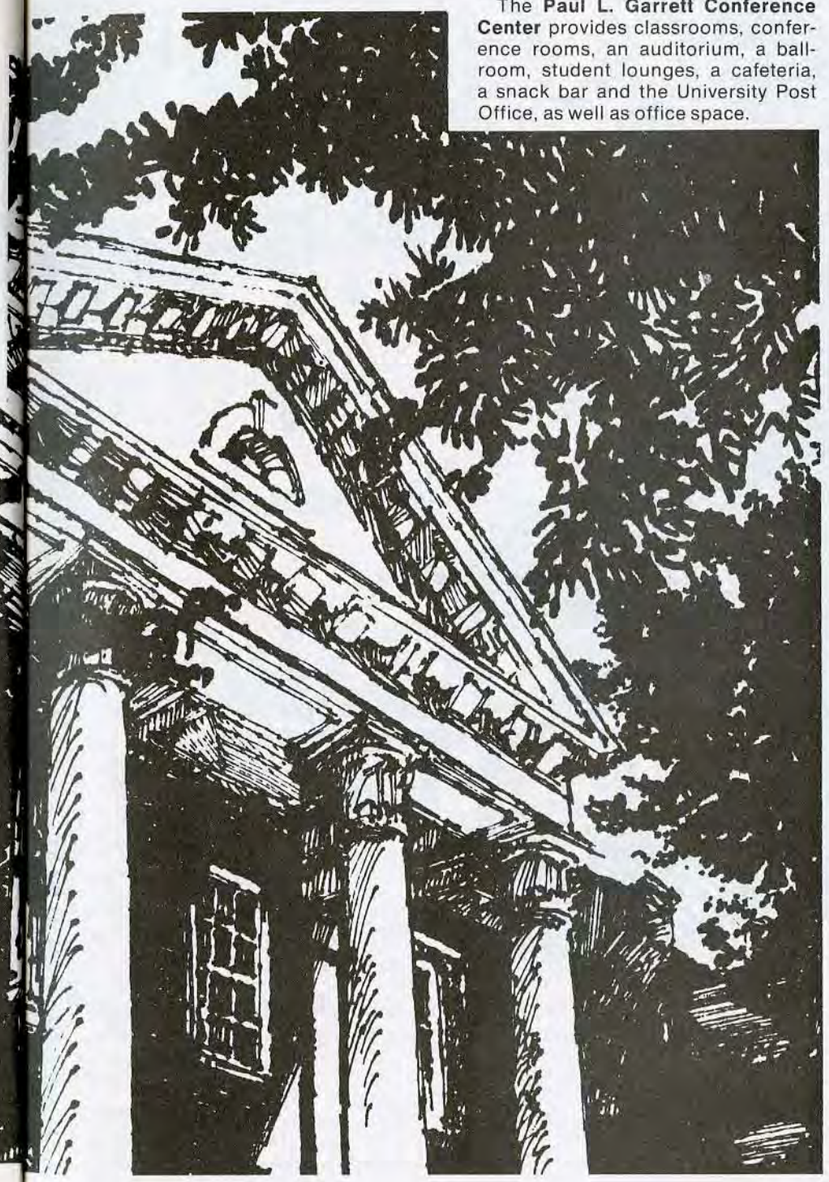
The **Charles L. Taylor Agriculture Center** is located on the University Farm on Highway 31-W South. Many activities relative to agriculture are housed here. A new agricultural exposition center contains two arenas and seats approximately 2600 spectators.

The **Margie Helm Library** is one of the two buildings which constitute the main library complex for undergraduate and graduate work. It provides shelving for 375,000 volumes and seating for 1,100 students, as well as facilities for reference, periodicals, a media retrieval center, university archives, offices, seminar rooms and departmental offices.

The **Raymond L. Cravens Graduate Center and Library,** which is connected to the Margie Helm Library and is the other part of the main library complex, serves as the center for library functions, such as technical processing, circulation, the microform collection and specialized disciplinary collections. It houses the Division of Academic Services and also furnishes space for the library administrative offices, seminar rooms, typing rooms, graduate carrels, faculty research offices and offices for the Graduate College. The structure provides shelving for 450,000 volumes and seating for 1,400 persons.

AUXILIARY BUILDINGS

The **Lawrence W. Wetherby Administration Building** is the major administrative building. In addition to the offices of the President and the Vice-Presidents, most offices relative to enrollment, orientation and academic advisement are located in this building.



Van Meter Hall houses an auditorium and offices for the Bowling Green Community College.

The **Central Heating Plant,** which is capable of utilizing natural gas, fuel oil and coal, provides heat for the entire campus.

The **Faculty House,** formerly known as the Cedar House, serves as a center for faculty activities.

The **Paul L. Garrett Conference Center** provides classrooms, conference rooms, an auditorium, a ballroom, student lounges, a cafeteria, a snack bar and the University Post Office, as well as office space.

The **Kentucky Building** houses the Kentucky Library and the Kentucky Museum.

The **Physical Plant and Parking Structure** furnishes office space for physical plant operations and the Department of Public Safety. It also contains a self-service laundry, a rifle range and parking space for 1,000 cars.

The **Supply-Services Building** houses the Print Shop, Central Shipping and Receiving, warehousing and administrative offices.

The **Dero Downing University Center** contains space for various student activities, conference rooms, a bookstore, a cafeteria, a snack bar, a theatre and office space for University Publications, Associated Student Government and Food Services.

The **Craig Alumni Center** currently provides office space for Alumni Affairs and the College Heights Foundation.

Potter Hall houses the Office of University Housing and the Offices of Student Affairs on the first floor. The remainder of the building serves as a residence hall for women.

The **Florence Schneider Continuing Education Center** provides three meeting rooms and approximately sixty-nine sleeping rooms for conferences and workshops held on campus.

RESIDENCE HALLS

Residence halls are described in the next section of the catalog.

OTHER DISTINCTIVE LANDMARKS

A statue of Henry Hardin Cherry, Western's first president, stands in front of the building named for him. Sitting at the top of College Street, the building and the statue provide Bowling Green with two of its most impressive landmarks.

A Pylon marks the main entrance of the Western campus. It was erected in 1956 to commemorate the fiftieth anniversary of the University.

An historic colonnade which was part of the old football stadium serves as a backdrop to the outdoor theatre of the Ivan Wilson Center for Fine Arts.

The University Farm occupies 785 acres on the Nashville Road five miles south of the main campus.

ENROLLING AT WESTERN

Admission
Orientation
Registration
Advisement, Career Planning and Placement
Counseling and Testing
Expenses and Fees
Financial Assistance
Residence Halls
Student Services
Student Organizations and Activities

POLICIES

Kentucky High School Graduates — Graduates of an accredited Kentucky high school are generally eligible for admission to the freshman class. Regulations applying to international students are noted under rules for out-of-state graduates.

NOTE: Other factors which may be considered in determining admission are: (1) scores obtained on the required American College Test, (2) rank in the high school class, (3) recommendations from the principal, guidance counselor or other interested persons and (4) personal qualifications and citizenship.

Out-of-State Graduates—Graduates of accredited high schools from states other than Kentucky should: (1) rank in the top one-half of their graduating class; (2) have a 2.0 grade average (using a 4 point system) in the combined units of English, mathematics, science and social studies and (3) obtain a satisfactory score on the American College Test. (The remarks under "Note" above also apply.)

Applications received from students residing in states other than Kentucky and applications received from international students graduating from foreign schools or Kentucky schools, including Kentucky High School Equivalency Certificate holders, will be reviewed on a competitive basis. Fulfillment of the above minimum requirements does not guarantee admission to the University.

Test Required—All beginning freshmen entering a state institution of higher education in Kentucky are required to take the American College Test (ACT). Students applying for admission to Western should take this examination in the early part of their senior year in high school. Applicants should consult their high school principal or guidance counselor for detailed information on test dates, test centers, registration forms, registration periods and deadlines. This information may also be obtained by writing to the ACT Program, Box 414, Iowa City, Iowa 52240. The results from the test must be received by Western from the national testing center in Iowa City, Iowa. If a student has already taken the test and Western was not listed on the answer sheet at the time of the examination, the student should write the ACT Program and request that scores be sent to Western. Scores received from the student or from the high school will not be acceptable generally since Western must receive the scores on the standard reporting form. **No other test may be substituted for the ACT.** Students transferring to Western are not required to take the ACT.

Transfer Students—Students desiring to transfer to Western from another accredited college should submit an application for admission and two official transcripts from each college attended. Transfer students must have a minimum grade point average of "C" for the last semester or term of full-time work, a cumulative grade point average of "C" and be in good standing at the institution from which they are transferring. Transfer students from states other than Kentucky will be considered on a competitive basis and fulfillment of the above minimum requirements does not guarantee admission to the University. Under no conditions will the applicant be permitted to ignore previous college work. Students transferring to Western are not required to take the ACT.

In evaluating applications for transfer admissions, other factors which may be considered are: (1) scores obtained on the American College Test; (2) high school performance; (3) personal qualifications and citizenship and (4) an interview with an admissions officer.

Transient Students—A student currently enrolled at another college or university may apply for admission to Western as a transient student. In such cases, the Registrar or Dean of the institution in which the student is regularly enrolled must complete a transient permission form confirming that the student is in good standing and has permission to enroll at Western for a specified period of time. This form may be obtained by writing the Office of Admissions.

Readmission of Students — Students who have previously attended Western, but who are not currently enrolled, may be readmitted to the University by the Office of Admissions if they are in good standing and have an academic average of 2.0 ("C") or above. Students applying for readmission with an academic average of less than 2.0, but who are otherwise in good standing, will be considered on an individual basis. The conditions of readmission will be specified at the time the application is reviewed. Readmission applicants are subject to the same factors which govern admission as a freshman or transfer student.

If a student has attended other colleges since last attending Western, the student must submit, in addition to the application for readmission, two official transcripts from each of the other institutions attended.

Special Approval Categories — Graduates of nonaccredited high schools may be admitted on the basis of a satisfactory high school record which has been validated through satisfactory scores on the American College Test.

High school students who have a superior record, a superior score on the ACT and are within one unit of graduation may be admitted to the freshman class upon special approval from the high school principal and the Office of Admissions.

Superior high school students may be admitted for six to twelve semester hours of college credit and are eligible to apply for the High School Junior Scholars Program during the summer session between the junior and senior years in high school. Refer to the High School Junior Scholars section of this bulletin for details. Approval must be obtained from the parents, high school counselor or principal and Office of Admissions.

Persons nineteen years of age or over who are not high school graduates may be admitted as special adult students upon approval from the Office of Admissions. Approval may be given on the basis of the Kentucky High School Equivalency Certificate, which may be granted as a result of satisfactory scores on the General Educational Development (GED) Test. The applicant should contact the local school superintendent's office for information on the GED. Before credits are validated for any certificate or degree at Western, the student must satisfactorily complete one year of college work.

Students who do not expect to become applicants for any certificate or degree may enroll upon approval of the Office of Admissions. They will not be required to follow any regular curriculum, but they will be subject to all other rules and regulations of the University.

Admission to the Nursing, Medical Record Technology and Dental Hygiene Programs — A person seeking admission to a Degree Program in either Nursing, Dental Hygiene, or Medical Record Technology must first be admitted to the University and then to the respective department. This means that an application must be submitted to the Office of Admissions prior to submitting a second application to the department. For additional information on the Nursing program write: Head, Department of Nursing. For additional information on the Dental Hygiene program write: Head, Department of Dental Hygiene. For additional information on the Medical Record Technology program write: Director, Medical Record Technology Program.

Admission of International Students — Western Kentucky University is committed to promoting international understanding through intercultural exchange derived from the admission of qualified international students from countries throughout the world.

International students graduating from high schools located in countries other than the United States are required to: (1) prove English proficiency by submitting proof of at least four years of successful study of English as a Foreign Language and a minimum score of 450 on the Test of English as a Foreign Language (TOEFL) or a minimum score of 500 on the TOEFL without high school study of English (no substitute for the TOEFL); (2) submit a complete transcript of high school program, submit a copy of the school leaving certificate, and submit a complete transcript of any college or university work (International students transferring from colleges or universities outside the United States must have transfer credits evaluated by the International Education Research Foundation, Inc. before admission can be granted) and (3) submit the completed, signed financial accountability form with an $1800 deposit or proof of a financial scholarship.

Applications received from international students will be reviewed on a competitive basis. Fulfillment of the above minimum requirements does not guarantee admission to the University. An effort will be made to admit students from a variety of countries.

Admission to the Graduate College—Information regarding admission to the Graduate College is published in the Graduate Bulletin. Address inquiries to the Dean of the Graduate College.

Application Deadlines—Applications for admission should be submitted well in advance of the term in which the student plans to enroll. Beginning freshmen should complete the admission procedures early in the senior year in high school. The following deadlines have been established for all students in order that maximum consideration and assistance can be given to each applicant.

Fall Semester
Out-of-State Applicants ..... June 1
Kentucky Residents ..... Aug. 1
International Students ..... Apr. 1

Spring Semester
Out-of-State Applicants ..... Dec. 1
Kentucky Residents ..... Jan. 1
International Students ..... Sep. 1

Summer Term
Out-of-State Applicants ..... May 1
Kentucky Residents ..... June 1
International Students ..... Mar. 1

Exception to this policy can be made only with special approval of the Committee on Admissions and/or the Director of Admissions.

PROCEDURES

A. The application for admission should be obtained from the Office of Admissions or your high school.

B. The application should be completed according to instructions, signed and mailed directly to the Office of Admissions. (NOTE: Students transferring from another college or university to Western must, in addition to submitting the application for admission, request that two official transcripts from each college attended be sent directly to the Office of Admissions. The application cannot be reviewed until all transcripts have been received.)

C. After mailing the application for admission, beginning freshmen should request their high school counselor or principal to send immediately an official transcript to the Office of Admissions.

D. Beginning freshmen must take the required ACT examination and request that the scores be sent directly to Western from the National Testing Center in Iowa City, Iowa. (NOTE: It is not possible to make a substitution for the ACT requirement.)

E. The admission decision for beginning Kentucky freshmen will be made upon receipt of the signed completed application. Non-Kentucky beginning freshmen must have a copy of the high school transcript forwarded to the Office of Admissions before a decision can be made. The Office of Admissions will respond to a completed application generally within one week.

F. A medical record form will accompany the letter of acceptance. The form should be completed by the student (with family assistance) and returned to the Office of Admissions.

G. Students desiring to study Nursing, Dental Hygiene or Medical Record Technology must submit the appropriate departmental admission application in addition to the University application. This form may be obtained from the respective department head. (NOTE: Applicants must be admitted to the University before consideration can be given to the departmental applications.)

H. If financial assistance is desired, submit the financial aid application to the Office of Student Financial Aid.

I. If a scholarship is desired, submit a scholarship application to the Office of University-School Relations.

J. Veterans should obtain the application for veteran benefits from the Office of Student Financial Aid. The application should be returned to the Office of Student Financial Aid.

K. For housing, the housing application should be sent with the required deposit to the Director of Housing.

L. High school officials will be requested by the Office of Admissions to confirm the student's graduation from high school.

M. After admission has been granted, a card will be mailed asking the student to officially list a chosen major in order that the University may assign an appropriate faculty advisor. The card will also invite beginning freshmen to participate in an early orientation, advisement and registration program.

N. Upon receipt of the card the student should complete and return it immediately.

O. Students should arrive on campus at the designated time for orientation and registration. During orientation a faculty advisor will assist in selecting course work to be taken during the first semester.

APPEAL PROCEDURES

When further consideration of an admission or readmission decision is desired, the University Admission Review Committee shall have the responsibility for reviewing the situation to determine if the decision was in keeping with existing policy.

The University Committee on Admissions shall be responsible for considering an appeal of an admission or readmission decision. This shall be done after the University Admission Review Committee has reviewed the initial decision. An appeal will only be considered by this committee after a letter of appeal has been submitted to the Director of Admissions clearly explaining the reasons why the student feels an exception should be made. The letter of appeal should include details which the applicant considers appropriate.

Detailed procedural guidelines for requesting further consideration or for submitting an appeal to the University Committee on Admissions may be obtained from the Director of Admissions or the Dean of Scholastic Development, who serves as chairman of both the University Admission Review Committee and the University Committee on Admissions.

For additional information concerning admission or readmission, contact the **Office of Admissions.**

ORIENTATION

All students entering Western for the first time as full-time students are expected to participate in the orientation program, commonly referred to as the **Orientation-Advisement-Registration (OAR) Programs.** There are currently six OAR Programs at Western — one at the beginning of the Spring Semester, one at the beginning of the Summer Session, three early programs in the summer for the fall freshmen and transfers, and one at the beginning of the Fall Semester. The purpose of the OAR Programs is to provide a general orientation to the educational opportunities and facilities of the University, to provide each student with the opportunity to meet with an advisor in the student's chosen program of study to plan a curriculum, and to prepare the student for the registration process.

A packet of orientation materials containing a Major/Advisor Card is mailed to all students who have been accepted as full-time students for any given semester. Upon receipt of the Major/Advisor Card, the staff in the New Student Orientation Program prepares a detailed folder of materials containing general information as well as specific information relative to the chosen program of study. For transfer students, an evaluation of all transfer credits is prepared by the Center for Academic Advisement, Career Planning and Placement and included in the orientation folder which is usually mailed three to four weeks prior to the OAR Program.

Full-time freshmen who plan to enroll for the first time in the fall semester are given the opportunity to participate in one of three one-day OAR Programs held early in the summer. During these programs, fall freshmen who signed up for the early program prior to the deadline meet with an advisor and register for their fall classes through an on-line computer registration system in the Garrett Conference Center. The registration fee is paid on a specified day prior to the first day of classes. Students receiving financial aid and scholarships receive their check at that time. Details of this procedure are provided to all fall freshmen who register in the early programs.

The early OAR Programs are open to new freshmen and transfers who will be entering Western for the first time in the fall semester. Students who enroll for the first time in the Summer Session are therefore not eligible to participate in these early programs.

REGISTRATION

Any person desiring to register at Western Kentucky University must be accepted for admission to the University and have a personalized registration packet prepared in advance of registration.

New students who are accepted for admission will automatically have a registration packet at the time of registration. Students currently enrolled for a semester or term will automatically have a registration packet prepared for the following term. Students who have withdrawn from the University should complete an application for readmission well in advance of registration so that a packet will be available during the registration period.

In order to be enrolled officially in the University, a student must be properly registered for each course.

All students are expected to register for courses during the days on which registration is scheduled. Detailed instructions are made available by the Registrar as to the time for each alphabetical group of students to register, and the procedure for completing the registration.

A late registration period is provided for students who find it impossible to participate in the regular registration. However, students who register late usually find that making a satisfactory schedule is sometimes difficult. The late registration fee is $5.00. The **Office of the Registrar** is located on the second floor of the Wetherby Administration Building.

ADVISEMENT, CAREER PLANNING AND PLACEMENT

The **Center for Academic Advisement, Career Planning and Placement** is charged with an overall mission of conceptualizing, developing and delivering a wide variety of developmental services and programs designed to assist students enrolled at Western Kentucky University as they move toward the successful completion of their educational and career objectives. In order to accomplish this mission, the center has developed its services and programs into two broad functional areas, as follows:

Academic Advisement

A. Academic advisement for all undergraduate students
   1. Coordination of the assignment of faculty advisors for students who have declared majors
   2. Coordination of the preregistration advisement program
   3. Advisement of students who have not declared majors
   4. Assisting students in the preparation of their undergraduate degree programs
B. Approval of all undergraduate degree programs
C. Administration of the university scholastic regulations including counseling undergraduate students who have less than the minimum cumulative grade point average required to maintain good standing in the university
D. Administration of the university attendance policy including counseling students who have been referred to the office for counseling relative to poor attendance and/or achievement
E. Administration of a general counseling program for undergraduate students, including:
   1. Counseling undecided students as to a major field of study
   2. Counseling students who are experiencing academic difficulties but who are not on academic probation
   3. Counseling students who wish to drop classes or withdraw from the university
   4. Counseling students who have questions regarding university policies, regulations and requirements
   5. Counseling military personnel (active and inactive) concerning the fulfillment of their undergraduate degree program
F. Coordination of a university-wide tutoring referral service
G. Evaluating the transferability of academic credits of transfer students from sister institutions of higher education, as particularly applicable to Western's general education requirements and other degree requirements
H. Maintains a comprehensive library of catalogs from other institutions of higher education

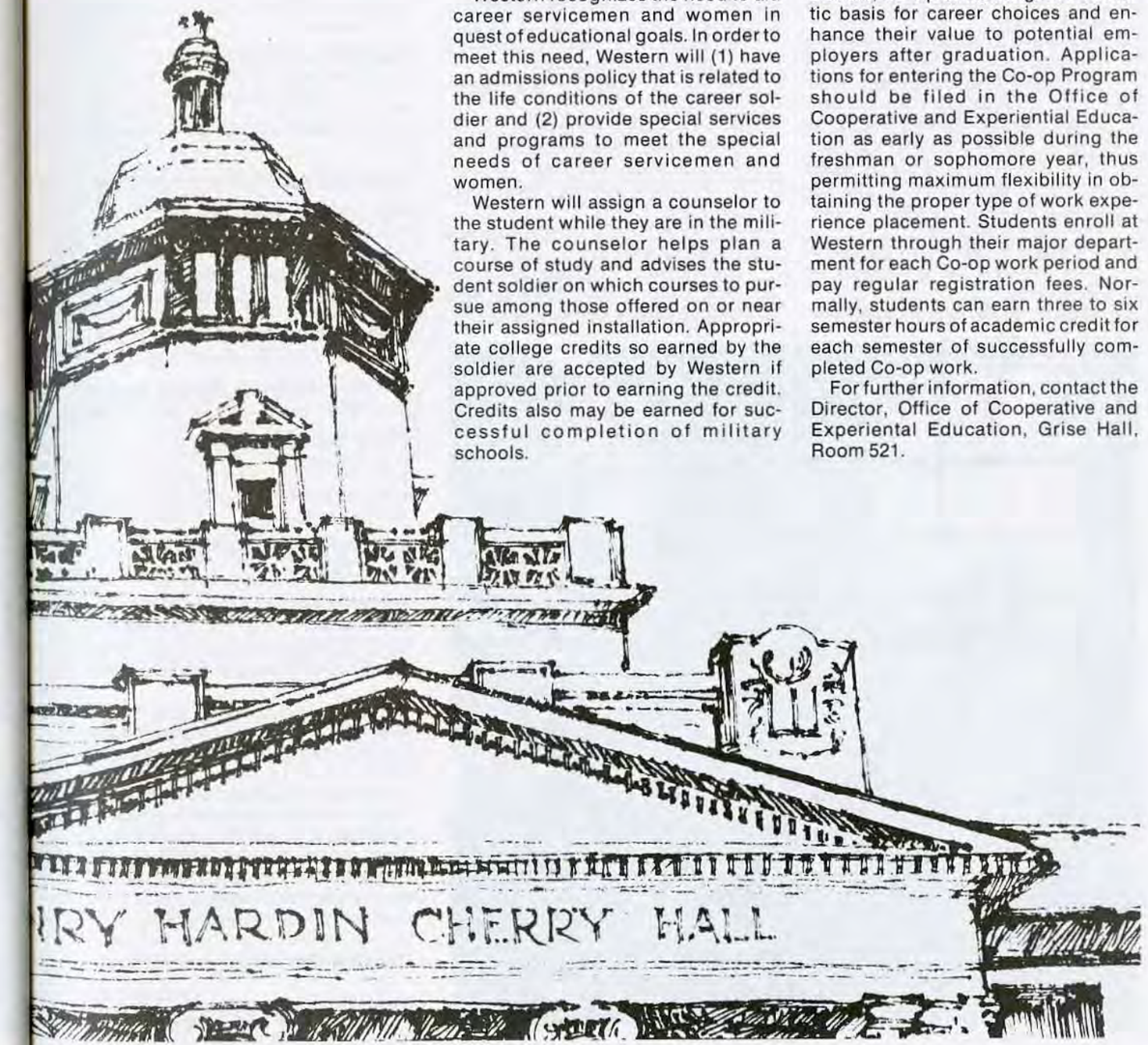
Career Planning and Placement

A. Career Advisement and Counseling: Career advisors are available on an appointment basis to assist Western students in the development and formulation of realistic educational and career objectives. Additionally, the career advisors assist students in identifying their career planning and placement concerns as well as developing resources and strategies which can aid in resolving their career and graduate study concerns.
B. Mini-Lecture Series: This program consists of 11 career development lectures designed to enhance student career selections, review employment opportunities and prepare students to compete successfully for jobs. Each lecture is 50 minutes long, free of charge and presented weekly. The lectures are as follows:
   1. An Introduction to Career Planning and Placement.
   2. Career Planning Through Job Placement — An Overview.
   3. Career Development — A Decision Making Process.
   4. Liberal Arts Graduates — Careers and Jobs.
   5. So You Plan to Teach?
   6. Traditional and Non-Traditional Career Opportunities for Women.
   7. GRAD II.
   8. Preparing Your Resume.
   9. Resume Review.
   10. Job Interview Techniques.
   11. Writing Cover Letters and Other Job Search Correspondence.

   To register for the lectures of your choice, report to Career Planning and Placement, 1st floor, Schneider Hall.
C. Speaker's Bureau: The Bureau is comprised of representataives from the professional staff of the Center and consultants from the "world of work." The speakers are available to faculty and student organizations and will speak on a wide variety of career education topics. Special presentations are also scheduled on a request basis.
D. Career Library Resources: The Career Library is designed to make available pertinent resources relating to career planning, employer literature, graduate and professional studies, manpower trends and other related placement information. All students are invited to become familiar with these library materials which have been conveniently and systematically arranged for optimum use. The staff will assist students in locating and utilizing these materials as well as directing you to the Margie Helm Library for additional resources.
E. GRAD II: A new and highly innovative computerized employer matching program is available free of charge to all graduating seniors and employers. Both employers and graduating seniors are provided data on computerized printouts of all job matches made . Forms and instructions are available on the first floor of Schneider Hall.
F. On-Campus Interviews: An increasing number of organizations are sending representatives to Western to interview registrants for vacancies that exist in their respective organizations. All graduating seniors are encouraged to periodically check with Career Planning and Placement regarding detailed information about interview procedures and dates. Graduating seniors may sign up for interviews on the interview sign-up board located on the first floor, Schneider Hall.
G. Job Vacancy Information: All notices of current position vacancies and new job openings received by Career Planning and Placement will be posted on bulletin boards across campus. The vacancy notices will be divided into non-educational and educational positions with an accompanying description of the necessary qualifications for each position. Binders containing job vacancy notices will be maintained in the Career Library, 1st floor, Schneider Hall.
H. Credentials Service: This service provides registrants with a convenient centralized service for collection, reproduction and dissemination of credentials. The staff in Career Planning and Placement will maintain your credentials indefinitely and will forward copies to any potential employer and/or graduate school at the request of the registrant or employer.

The Center is jointly housed on the second floor of the Wetherby Administration Building and on the first floor of Florence Schneider Hall.

COOPERATIVE AND EXPERIENTAL EDUCATION



Servicemen's Opportunity College

The Servicemen's Opportunity College (SOC) program offers admission to an applicant to Western Kentucky University while the individual is on active military duty.

Western recognizes the need to aid career servicemen and women in quest of educational goals. In order to meet this need, Western will (1) have an admissions policy that is related to the life conditions of the career soldier and (2) provide special services and programs to meet the special needs of career servicemen and women.

Western will assign a counselor to the student while they are in the military. The counselor helps plan a course of study and advises the student soldier on which courses to pursue among those offered on or near their assigned installation. Appropriate college credits so earned by the soldier are accepted by Western if approved prior to earning the credit. Credits also may be earned for successful completion of military schools.

Cooperative Education is a plan in which periods of employment related to the student's field of interest are carefully scheduled and integrated with periods of academic study. The primary objectives of the Cooperative Education Program are to combine practical and theoretical training during the early stages of a student's career and to assist students in meeting some of their college expenses. By alternating academic preparation with work experiences under actual employment conditions with professionals, Co-op students gain a realistic basis for career choices and enhance their value to potential employers after graduation. Applications for entering the Co-op Program should be filed in the Office of Cooperative and Experiential Education as early as possible during the freshman or sophomore year, thus permitting maximum flexibility in obtaining the proper type of work experience placement. Students enroll at Western through their major department for each Co-op work period and pay regular registration fees. Normally, students can earn three to six semester hours of academic credit for each semester of successfully completed Co-op work.

For further information, contact the Director, Office of Cooperative and Experiental Education, Grise Hall, Room 521.

COUNSELING AND TESTING

The **University Counseling Services Center** with offices in the College of Education Building, Room 408, provides counseling assistance for the broad spectrum of student needs at Western Kentucky University. Among the responsibilities assigned to this office are the following:

A. Provide counseling services for students experiencing concerns of a personal nature.
B. Provide counseling services for students experiencing various types of learning problems that prevent a productive classroom experience.
C. Provide educational counseling (helping students select a course of study) in conjunction with vocational counseling (helping students explore possible vocations within his educational choice). Such counseling is based upon an objective appraisal of the student's abilities, aptitudes, interests and aspirations.
D. Collect and disseminate up-to-date occupational and career information.
E. Serve as a referral agency for students who might need counseling services available outside the University.
F. Administer the General Educational Development Test, the equivalency examination available for adults who have not completed high school.
G. Administer the national testing programs required by various departments of the University. Testing information and registration packets are available from the Center. These include:
   1. Graduate Record Examination
   2. National Teachers Examination
   3. Admission Test for Graduate Schools of Business
   4. Dental Hygiene Admission Test
   5. Law School Admission Test
   6. Medical College Aptitude Test
   7. Dental Aptitude Test
   8. American College Testing Program
H. Administration of the College Level Examination Program, a proficiency testing program which allows individuals to earn college credits by examination.

EXPENSES AND FEES

UNDERGRADUATE REGISTRATION FEES*

Fall or Spring/Full-Time
(12 hours or more)

Kentucky Resident	$260 per semester
Non-Resident	$670 per semester

Summer Session/Full-Time
(9 hours or more)

Kentucky Resident	$198 per semester
Non-Resident	$504 per semester

Fall or Spring/Part-Time
(1 to 11 hours)

Kentucky Resident	$22 per hour
Non-Resident	$56 per hour

Summer Session/Part-Time
(1 to 8 hours)

Kentucky Resident	$22 per hour
Non-Resident	$56 per hour

GRADUATE REGISTRATION FEES*

Fall or Spring/Full-Time
(9 hours or more)

Kentucky Resident	$295 per semester
Non-Resident	$720 per semester

Summer Session/Full-Time
(9 hours or more)

Kentucky Resident	$297 per semester
Non-Resident	$720 per semester

Fall or Spring/Part-Time
(1 to 8 hours)

Kentucky Resident	$33 per hour
Non-Resident	$80 per hour

Summer Session/Part-Time
(1 to 8 hours)

Kentucky Resident	$33 per hour
Non-Resident	$80 per hour

*Registration fees are subject to change by the Kentucky Council on Higher Education (KCHE).

A tuition waiver established by the Kentucky Council on Higher Education in the amount of the non-resident fee is in effect for Sumner and Robertson counties in Tennessee. This tuition waiver is also in effect for Vandenburg, Warrick, Spencer and Perry counties in Indiana; however, students from these Indiana counties must reside in University housing to qualify for the tuition waiver.

OTHER EXPENSES (Per Semester)

Meals (Approximately).....$300-575
Western has four eating facilities available: a snack bar and a cafeteria in the Paul L. Garrett Conference Center, a grill and a cafeteria in the Dero Downing University Center. A voluntary board plan providing 10 meals per week is offered in the Paul L. Garrett Conference Center Cafeteria.

Books (Approximately) $85

Personal Students should also make budget allowances for miscellaneous personal expenses which will vary greatly depending upon individual habits and needs.

Rooms per semester (Room rates are per student double occupancy and are to be paid in advance.)

Women's Residence Halls

South Hall	$245
West Hall	$245
McLean Hall	$245
Potter Hall	$245
Bates-Runner Hall	$245
W. R. McCormick	$255
J. T. Gilbert Hall	$255
Rodes-Harlin Hall	$255
Central Hall	$255
H. Bemis Lawrence Hall	$255
Hugh Poland Hall	$255

Men's Residence Halls

East Hall	$245
North Hall	$245
Barnes-Campbell Hall	$255
Douglas Keen Hall	$255
Pearce-Ford Tower	$255

The cost of single occupancy is one and one-half (1½) of the regular rate. (Married students desiring housing on campus should check with the Director of Housing for information on apartments and rental fees.) Rooms - summer session - each 5½ week term, $90.

Off-Campus Housing
Approximate per month cost depending on the facilities $75-125

Dental Hygiene and Nursing Program Expenses
Students who are enrolling in the Dental Hygiene and Nursing programs should consult with the appropriate department head for information concerning the cost of uniforms, supplies, and instruments which are required for these programs.

Music Fees
Students enrolling for courses in Music should review the schedule of fees under information on the Department of Music.

Student Health Service Charges
The charges for student health services are described in the section of the catalog entitled Student Services.

Student Teaching Fee
A fee of $10.00 is assessed for 8 hours of student teaching.

Change-of-Program Fee—A $1.00 change-of-program fee per change will be assessed for program changes made after registration unless changes are made by the University.

Fees for Auditors—All students who audit a course are charged the same fee that they would pay if they took it for credit.

Fees for Graduation—Candidates for the associate and baccalaureate degree will be charged a fee of $10.00. Candidates for graduate degrees will be charged a fee of $20.00 This fee will cover the cost of cap and gown, diploma and other necessary expenses. Graduation fees should be paid the semester prior to the semester of graduation.

Transcript Fees—The following fees are assessed for transcript services:
$1.00 per transcript for twenty-four (24) hour service.
$2.00 per transcript for immediate over-the-counter service.
Each student graduating from the University is provided one official transcript at no charge following graduation.

FEE PAYMENT
All registration fees, housing fees, course or laboratory fees, meal charges, health service charges, and other assessments, fees and charges are due and payable in accordance with the statements rendered by the appropriate University office.
Registration and housing fees must be paid on the date a student registers or on other dates as specified by the Office of Business Affairs. Students who do not make payment of required fees are not registered students. Payment of fees will not be deferred.
For the payment of registration fees, the full-time student receives instruction, admission to all athletic events, admission to selected student events, use of libraries and University centers, use of recreational facilities, health and clinical services at reduced costs, a copy of the *Talisman* (the student yearbook), a subscription to the *College Heights Herald,* the student newspaper, and other benefits and services offered by the University.
The University expects the student to be financially responsible and not be delinquent in financial obligations to the University or to any department or division of the University. A student who fails to meet a financial obligation within 10 days after the date of notice from the appropriate University official will be subject to regulations promulgated by the Vice President for Business Affairs. If the student does not settle the obligation by the date designated on the notice, the Vice President for Business Affairs shall notify the Registrar. After the Registrar has been notified that a student is delinquent, the Registrar shall

not allow the student to register, or to transfer credits, or to certify the student for graduation, until the Registrar has been notified in writing by the appropriate business office that the obligation has been settled.

Registration Fee Refund Policy

A refund of fees shall be made if a student officially withdraws or is dismissed from the University during the first seven weeks of a regular semester or the first three weeks of a summer session. The refunded portion of the fees shall be based on the following schedule:

	Regular Semester	Summer Session
First Week	7/8	3/4
Second Week	6/8	2/4
Third Week	5/8	1/4
Fourth Week	4/8	No refund after third week
Fifth Week	3/8	
Sixth Week	2/8	
Seventh Week	1/8	
Eighth Week	No refund after seventh week	

For the purpose of the above calculation, the week will begin with the first day that classes begin. After seven weeks in the regular semester and three weeks in the summer session, no refund will be made.

Residence Hall Refund Policy

The refund policy for residence hall fees may be found in the section of the catalog entitled "Residence Halls."

FEE ASSESSMENT POLICY

The policy on classification of students for registration fee assessment purposes at state-supported institutions of higher education was established by the Kentucky Council on Higher Education. It is printed below.

Section 1.

INTENT. Under current law the Council on Higher Education as a matter of policy establishes a higher fee or tuition for non-resident students attending public institutions than that charged Kentuckians. It is the intent of the Council on Higher Education that the state institutions of higher education in the Commonwealth of Kentucky shall apply uniform interpretations, as described in this policy and not otherwise, in determining whether students shall be classified as residents or non-residents for fee assessment purposes.

Section 2.

DEFINITIONS. Wherever used in this policy:

(1) The word "institution" shall mean a college, university, or community college supported by appropriations made by the General Assembly of Kentucky.

(2) The word "residence" or "reside" shall denote continuous presence within this State, provided that temporary absence for short periods of time shall not affect the establishment of a residence.

(3) The word "domicile" shall denote a person's true, fixed, and permanent home and place of habitation. It is the place where that person intends to remain, and to which that individual expects to return when leaving without intentions of establishing a new domicile elsewhere. Residence and domicile convey the same notion of permanence and principal home and are used interchangeably.

(4) The term "emancipated person" shall mean a person who has attained the age of 18 years, and whose parents: (A) have entirely surrendered the right to the care, custody and earnings of such person; (B) who no longer are under any legal obligation to support or maintain such person; (C) who no longer, in fact, voluntarily contribute substantial financial assistance; and (D) whose parents' income is not taken into account by any private or governmental agency furnishing financial educational assistance to such person, including scholarships, loans and other assistance. If all of the aforesaid dependency tests are not met, said person shall be deemed an "unemancipated person."

(5) The word "parent" shall mean a person's father or mother, or the parent having custody, or if there is a legal guardian or legal custodian of an unemancipated person, then such guardian or legal custodian; provided that such guardianship or custodianship was not created primarily for the purpose of conferring the status of resident on such an unemancipated person.

(6) Attendance at a college or colleges in this State shall be deemed "continuous" if the person claiming continuous attendance has been enrolled at a college(s) in this state as a full-time student, as such term is defined by the governing body of said college(s), for two consecutive regular semesters since the beginning of the period for which continuous attendance is claimed. Such person need not attend summer sessions or other such intersession in order to render person's attendance "continuous."

Section 3.

GUIDELINES FOR DETERMINATION OF STATUS.

(1) The domicile of an unemancipated person is that of one's parent.

(2) Upon moving to this State, an emancipated person who provides persuasive evidence of domicile may apply for resident classification for unemancipated children; and provided that said person is not personally in this State primarily as a full-time student, one's unemancipated children may at once be so classified.

(3) Any person who remains in this State when that individual's parent(s), having theretofore been domiciled in this State, removes from this State, shall be entitled to classification as a resident while in continuous attendance at the degree level in which currently enrolled.

(4) An unemancipated person whose parent is a member of the Armed Forces and stationed in this State pursuant to military orders shall be classified as a resident. The student, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when that individual's parent is thereafter transferred on military orders.

(5) An emancipated person who moves to the State within six months from the date of discharge from the military service with the stated intent of becoming a resident of the State shall be permitted to count such time spent in the military service toward meeting the presumptions outlined in Section 4, provided the individual entered military service from the State of Kentucky or maintains a home of record and permanent address in Kentucky at the time of discharge.

Section 4.

PRESUMPTIONS. Unless the contrary appears from clear and convincing evidence, it shall be presumed that:

(1) Except as provided in Section 4 (2), every person remaining in this State in a non-student status for the twelve months immediately preceding the last date for enrollment in the institution shall be presumed to be a resident student for fee assessment purposes. No person having a domicile elsewhere than in this State shall be classified as a resident for fee assessment purposes.

(2) No emancipated person shall be deemed to have gained residence while attending any educational institution (public or private) in this State as a full-time student, as such status is defined by the governing board of such institution, in the absence of a clear demonstration that the student has established domicile in the State. However, attending college in a part-time status will not prevent such person who has bona fide full-time employment in the State from establishing domicile.

(3) The domicile of a married person shall be determined by the provisions of these regulations independent of the residency of the spouse.

(4) A person does not gain or lose resident status for reason of presence in any state or country while a member of the Armed Forces of the United States. However, a member of the Armed Forces of the United States stationed in Kentucky on military orders, except members of the Armed Forces specifically assigned for educational purposes to state-supported institutions of higher education, is presumed to be domiciled in the State and shall be entitled to classification as a resident while on active duty in this State pursuant to such orders. Resident status is similarly granted to one's unemancipated children.

(5) In the event an unemancipated person's parents should have separate domiciles, one's domicile shall be that of the parent having legal custody. In the event neither parent has legal custody, one's domicile shall be that of the parent furnishing the greater financial assistance.

(6) Use of records. A student whose admissions records show that individual to be a graduate of an out-of-state high school and one's residence to be outside of Kentucky will normally be classified as a non-resident.

(7) Aliens. Aliens lawfully admitted to the United States for permanent residence under a permanent visa may establish Kentucky residence in the same manner as any other non-resident. An alien who possesses a student visa cannot be classified as a resident.

Section 5.

TYPES OF EVIDENCE TO BE CONSIDERED FOR ESTABLISHMENT OF DOMICILE. If a person asserts that a domicile has been established in Kentucky for a period of twelve months immediately preceding the last date for enrollment in an institution, that individual has the burden of proving the point. The following statements pertain to the kinds of evidence that will be considered in reviewing an assertion by a person that one is domiciled in Kentucky.

(1) The following facts, although not conclusive, have probative value in support of a claim for resident classification: acceptance of an offer of permanent employment in this State; former residence in the State and the maintenance of significant connections therein while absent; or abandonment of a former domicile and establishing domicile in the State with attendance at an institution following and only an incident to such domicile.

(2) The following facts are not necessarily sufficient evidence of domicile: employment by an institution as a fellow, scholar, assistant or in any position normally filled by students; a statement of intention to acquire a domicile in this State; voting or registration for voting; the lease of living quarters; payment of local and state taxes; Kentucky automobile registration; Kentucky operators license; continued presence in Kentucky during vacation periods; marriage to a Kentucky resident; or the ownership of any real property.

Section 6.

RESIDENCY CLASSIFICATION AND APPEAL PROCEDURES. Each institution shall establish a Non-Resident Fee Committee to consider changes in resident status based on the above criteria. Application for change of resident classification shall be made in writing to the Office of the Registrar or to the Chairman of the Non-Resident Fee Committee. The Chairman may present each case to the Committee for a final decision, and the student will be notified in writing as to the disposition of the application.

In the event of a ruling by the Non-Resident Fee Committee which is unsatisfactory to the student, the student may request that a copy of the file be submitted by the Chairman to the Executive Director of the Council on Higher Education for referral to the Council's Committee on Residency Review for its recommendation to the institution.

Section 7.

EFFECTIVE DATE. These revised guidelines became effective on July 1, 1975, and supersede all previous policies of the Council relating to classification of students for fee assessment purposes.

The Department of Student Financial Assistance is dedicated to assisting academically capable students with sufficient resources to enable them to meet their educational costs.

The major purpose of financial assistance available at Western Kentucky University is to supplement rather than to replace family and student resources.

Grants, Loans and Student Employment

The following programs of financial assistance are available at Western:

Grants

Basic Educational Opportunity Grant
State Student Incentive Grant
Supplemental Educational Opportunity Grant

Loans

National Direct Student Loan
Kentucky Higher Education Assistance Authority Guaranteed Loan
Nursing Loan
College Heights Foundation Loan

Student Employment

College Work-Study Program
Institutional Work Program
Full-time Summer Employment Opportunities
Referral Service for Off-Campus Job Placement

Application Procedure

The Financial Aid Form (FAF) and the Western Kentucky University Application for Student Financial Assistance are required for the following programs:

Basic Educational Opportunity Grant
Student Employment
State Student Incentive Grant
National Direct Student Loan
Supplemental Educational Opportunity Grant
Nursing Loan and Scholarship

Separate applications are required for the following programs:

Kentucky Higher Education Assistance Authority Guaranteed Loan
College Heights Foundation Short-Term Loan

All applications are available in the Department of Student Financial Assistance.

Application Priority Filing Dates

Fall Semester	May 1
Spring Semester	November 1
Summer Session	April 1

Summer Applications

Limited funds are available for summer session(s) in the areas of loan and student employment. Applications received prior to April 1 will be given first consideration.

Payment of Awards

Awards are made on an academic year basis conditional with fulfilling academic and registration requirements. Loan and grant payments are made during the time of registration at the beginning of each semester. Tuition and housing fees from loan and grant awards are applied directly to the cost of registration. Awarded amounts in excess of tuition and housing are made payable by check to the student. Student employment checks are distributed twice monthly.

All loan recipients are required to schedule a personal conference in the Department of Student Financial Assistance relative to a personal repayment schedule prior to graduating or withdrawing from the University.

Renewal Procedures

Federal regulations require awards to be made on the basis of the most current family financial data; therefore an updated Financial Aid Form and a Western application for Financial Aid must be completed for each academic year.

Academic Eligibility for Financial Aid

In order to continue receiving financial aid, a student must make satisfactory academic progress in accordance with the academic policies of the University and federal and state financial aid guidelines. In the event that satisfactory progress is not maintained, financial aid funds will be withheld. If satisfactory progress has been reestablished at mid-term, payment may be made retroactively for that particular payment period.

Undergraduate students will be considered to be making satisfactory academic progress when they are eligible to register in keeping with the academic probation and dismissal policies outlined in this bulletin under the heading, "Scholastic Regulations", and have earned 23 semester hours during the regular academic year of two semesters.

Graduate students will be considered to be making satisfactory academic progress when they are eligible to register in keeping with the criteria for continuation in the Graduate College as published in the Graduate College catalog, and have earned 17 semester hours during the regular academic year of two semesters.

Further information and administrative regulations pertaining to the application of this policy regarding satisfactory academic progress for financial aid may be obtained from the Department of Student Financial Assistance.

OTHER ASSISTANCE PROGRAMS

Waiver of Tuition KRS 164:505-515

Dependents and spouses of Kentucky War Veterans may be eligible for a Waiver of Tuition in any state-supported institution of higher education. Eligibility for the Waiver of Tuition may be determined by making application to the Department of Human Resources, Kentucky Center for Veterans Affairs, 600 Federal Place, Louisville, KY 40202. Application forms may be obtained from the Department of Student Financial Assistance.

Veterans Educational Benefits

Veterans who have served more than 180 days on active duty and were discharged with other than a dishonorable discharge may be eligible for educational benefits. Eligibility may be determined by making application directly to the Veterans Administration, 600 Federal Place, Louisville, KY 40202. Application forms are available in the Department of Student Financial Assistance.

Graduate Assistantships

Graduate assistantships are available in various departments to well qualified students. Stipends vary depending upon the student's qualifications and duties assigned. In addition to the stipend, the out-of-state portion of the graduate assistant's fees is awarded in the form of a scholarship. Assistantship payroll checks are issued on the 15th day of each working month.

All assistantship applications and letters of recommendation must be submitted to the Dean of the Graduate College, Western Kentucky University, no later than February 1 for the forthcoming academic year.

Vocational Rehabilitation

Students with physical disability may obtain grants-in-aid providing a considerable part of college-related costs through the Kentucky Vocational Rehabilitation Service. Information may be obtained from the Kentucky Vocational Rehabilitation Office nearest the student's hometown.

Social Security

Students who meet eligibility requirements can continue receiving benefits until age 22 provided they are in full-time attendance at the University. For further information contact the local Social Security Administration.

For further information and applications contact:
The Department of Student Financial Assistance
Wetherby Administration Building
Western Kentucky University
Bowling Green, KY 42101
(502) 745-2755

SCHOLARSHIPS

Standard application forms are mailed to every Kentucky high school guidance office each fall. These may be used for all academic scholarships (Awards of Excellence, Regents, College Heights Foundation, Alumni and general awards). The Scholarship Committee determines which scholarship to award to recipients. These awards range from $100 to $400 for the first year and are non-renewable.

Most "Awards of Excellence" are awarded each year to beginning students. These are $1000 each and renewable for four years or until graduation, whichever is sooner. Applicants for these awards should read carefully the minimum requirements and guidelines mentioned on the standard application form.

Awards are made to non-resident students. Transfer students who have completed two years at a two-year college in Kentucky may also apply.

All awards are applicable toward registration fees.

For additional information or application form, write Director, University-School Relations Office, Western Kentucky University, Bowling Green, Kentucky 42101.

College Heights Foundation Scholarships

The College Heights Foundation is located in the Foundation Building immediately north of the Administration Building. The College Heights Foundation exists for the purpose of aiding qualified needy and/or especially outstanding students at Western Kentucky University. A major area of such help consists of emergency loans and scholarship awards. College Heights Foundation scholarships are awarded through the Scholarship Committee of the University.

The College Heights Foundation was chartered in 1923. It is governed by a Board of Directors made up of twelve prominent business and professional leaders. Dr. Kelly Thompson, President Emeritus of Western, is President of the College Heights Foundation and Chairman of the Board of Directors. All gifts specified for the Memorial Fund of the College Heights Foundation are held in perpetuity, with all earnings being used in the student-assistance program.

All gifts to the College Heights Foundation are tax deductible.

The University maintains five residence halls for men.

Barnes-Campbell Hall is an air-conditioned residence for 366 men.

East Hall has rooms for 200 men.

Douglas Keen Hall is an air-conditioned residence for 402 men.

North Hall has rooms for 176 men.

Pearce-Ford Tower is an air-conditioned residence for 898 men.

There are eleven residence halls for women. Six of these residences are air-conditioned.

H. Bemis Lawrence Hall provides air-conditioned housing for 366 women.

McLean Hall is a modern residence hall with rooms for 148 women.

Potter Hall is a recently remodeled residence hall with rooms for 188 women.

Bates-Runner Hall provides housing for 152 women and contains four married students' apartments.

W. R. McCormack Hall contains air-conditioned housing for 350 women.

J. T. Gilbert Hall is a four-story air-conditioned residence for 202 women.

Central Hall is a ten-story, air-conditioned residence hall which provides housing for 398 women.

Hugh Poland Hall is an air-conditioned residence for 406 women.

Rodes-Harlin Hall is air-conditioned and provides housing for 368 women.

South Hall accommodates 191 women and contains two married students' apartments.

West Hall houses 184 women, and contains two married students' apartments.

All freshmen entering Western must live on campus for four semesters or until they have 60 semester hours credit, unless exempt as explained in the housing application. Each residence hall is under the supervision of a resident director who is a member of the administrative staff of the University. All residence halls are closed during official University holiday periods.

ROOM PAYMENT PLANS

OPTIONS

Full payment is preferred at the time of application for a housing reservation. A minimum deposit of $40 must be made with the application. However, applications submitted after August 1 for the Fall Semester and December 1 for the Spring Semester must be accompanied by a FULL PAYMENT. The following payment options are available for payment of the semester housing fees:

FALL AND SPRING SEMESTER, OPTION NO. 1, complete payment with application; **OPTION NO. 2,** $40 deposit and balance of payment at time of class registration. Make check or money orders payable to Western Kentucky University.

The University will refund all but $15 of the room deposit if written notice of cancellation is received by July 15 preceding the fall semester or December 15 preceding the spring semester. After these dates, $40 of the room deposit is nonrefundable. Applicants who are not accepted for admission to the University will receive a full refund of their deposit. Should a student move into an assigned room and then decide to cancel, the charge will be $30 plus ten percent of the total semester's rent for each week or fraction thereof that the student resides in the hall.

ROOM ASSIGNMENTS

Residence halls are assigned according to student preference and date the completed application is received by the University. Returning residents applying for housing by March 5 for the fall semester and December 5 for the spring semester have a choice of residence halls before new applicants are assigned. The University will always try to honor a student's first or second preference for a residence hall. However, when this is not practical, the applicant will be assigned to another residence hall, providing space is available. If a specific roommate is not requested, assignments will be made randomly without regard to race, creed, or national origin.

RESIDENCE HALL ROOMS

Two students are assigned to each room in all of Western's residence halls. Sheets and pillow cases are furnished in all rooms. Moreover, each room is furnished with the following: single beds, chest of drawers, mirrors, chairs, refrigerator and study desks. Sufficient closet space is provided in each room which is designed to accommodate two students comfortably. Centrex Telephone Service is available in each room.

Students who desire to have a room reserved in a residence hall should write to the Director of Housing for an application form. This application should then be submitted at the earliest possible time prior to the opening of the semester for which the student expects to be admitted.

OFF-CAMPUS HOUSING

A number of small apartments, unfurnished, are available for married students. As demand is heavy for these apartments, it is likely the student will have to wait until space is available. Address inquiries to the Director of Housing.

A courtesy list of available off-campus rooms for single men and single women and apartments for married students is maintained by the Director of Housing. However, it is recommended that these facilities be personally inspected before accommodations are selected. Students should plan to arrive early to allow time to choose a few rental possibilities from the listing service and to visit and discuss housing needs with the landlords.

The **Office of the Director of Housing** is located in Potter Hall — first floor.

STUDENT HEALTH SERVICE

The purpose of the University Health Service is to provide competent health care by qualified medical personnel to regularly enrolled students. The general practice services available include the treatment of acute and existing diseases, emergency care for injuries, individual counseling for health maintenance and in-patient infirmary care.

The Student Health Service is located in the L. Y. Lancaster Wing of the Academic Complex. The first floor is used for out-patient services. The second floor houses the infirmary portion which includes several semi-

private rooms, one private room, the nurses' station and kitchen.

The Health Service staff includes physicians, nurses, a pharmacist, X-ray and medical laboratory technologists and clerical personnel.

Regular out-patient clinic hours are Monday through Friday from 8:00 A.M. to 4:00 P.M. The emergency room is open twenty-four hours per day, seven days per week during the fall and spring sessions. Summer Session hours are Monday through Friday from 8:00 A.M. to 4:00 P.M.

There is a fee of $3.00 to the student for the doctor's consultation on minor illnesses during regular clinic hours. There is a charge of $4.00 for after-hours emergency room service. If required, charges are assessed for x-ray, laboratory, dressings, some nursing procedures, medications, surgical repairs, minor surgical procedures including repairs for laceration and in-patient services. These are based on the actual cost of materials involved and time consumed. The University does not pay for expenses incurred by students under the care of physicians outside the University.

STUDENT HEALTH INSURANCE

A group accident and sickness insurance plan is available to students on a voluntary basis. The plan is administered for the University by a local insurance agency. The policy covers both doctor's fees and hospitalization plus $1,000.00 accidental death benefits. It has the usual limits that most policies contain. The policy holder is protected at home, at school and during travel. The insurance is available at reasonable rates for one semester, two semesters or a full year. Students' spouses may be covered at extra cost.

For further information, consult the University Business Office located in the Lawrence W. Wetherby Administration Building.

FOOD SERVICES FACILITIES

The University maintains a variety of food service facilities on the campus. A large cafeteria and an equally spacious grill are located on the second floor of the Dero Downing University Center on the south end of the campus. A cafeteria and a snack bar are located in the Paul L. Garrett Conference Center on the north end of the campus. Through the Office of Food Services, students may purchase a semester meal plan consisting of two meals per day, Monday through Friday, in the Garrett Conference Center Cafeteria. In addition to these facilities, vending machines are in all residence halls. Several restaurants are located a short distance from campus.

COLLEGE HEIGHTS BOOKSTORE

A self-service store for textbooks and supplies is operated for students, faculty and staff by the College Heights Foundation. It is located on the third floor of the Dero Downing University Center.

LAUNDRY SERVICE

A modern coin-operated laundry for students, faculty and staff is located on the ground level of the parking structure, adjacent to the E. A. Diddle Arena. Study tables, television and other conveniences are provided for those utilizing the laundry.

POST OFFICE SERVICE

The University operates a complete U.S. Post Office located on the lobby level of the Paul L. Garrett Conference Center. Mail is delivered to all residence halls daily, Monday through Saturday.

LOST AND FOUND

A centralized lost and found service is located in the lobby of the Garrett Conference Center.

CHECK CASHING SERVICE

Two types of personal checks (maximum $40) may be cashed by the University Business Office either on the ground floor of the Wetherby Administration Building or at the theatre ticket window in the Dero Downing University Center:

1. The check may be written by the student and payable to Western.
2. The check may be written by the student's parents and payable to the student.

The Business Office will cash Western Kentucky University student payroll checks in any amount.

Checks may be cashed from 8:15 A.M. to 4:15 P.M., Monday through Friday, except during registration at the beginning of the semester and during the last week of the semester, at the Wetherby Administration Building or from 11:00 A.M. to 2:00 P.M., Monday through Friday at the theatre ticket window in the Dero Downing University Center.

A charge of $2.00 will be made for each check returned because of insufficient funds. The check cashing service will be denied to all students who have more than one check returned for nonpayment.

IDENTIFICATION CARD

A personal identification card is issued to each full-time student. The card is designed to be used during four school years and is validated each semester. The ID card includes a photograph and certifies that the holder has enrolled and paid all fees. The card is not transferable. Students may be admitted to University athletic contests and to some concerts sponsored by the Office of Student Affairs and Associated Student Government upon presentation of a valid ID card. The card also entitles the holder to use University library and recreational facilities. Students enrolled on a part-time basis are provided an ID card which entitles them to use the library and recreational facilities. If an ID card is lost, it may be replaced for a fee of $3.00. Application for replacement should be made at the Department of Personnel Services, University Business Office. When the student withdraws from school, the card remains the property of the University and must be turned in to the Business Office.

Student organizations and activities make a great contribution to student life at Western. All students are encouraged to become involved in organizations whose purposes and activities will contribute to their own personal growth and development.

Information is provided below on the organizations active at Western. For further information on them, call or stop by the **Office of Student Affairs** which is located in Potter Hall.

The Associated Student Government at Western is made up of three branches: the Executive, the Legislative and the Judicial.

The Executive branch is made up of the president, vice president for activities and programs, administrative vice president, secretary and treasurer. Their main function is to coordinate the overall efforts of student government. The president serves as presiding officer over congress, and in many other capacities related to student affairs. The vice president for activities and programs serves on the University Center Board. The administrative vice president coordinates the work of the various committees of student government. The secretary is responsible for maintaining accurate records of all Associated Student Government activities. The treasurer is responsible for the financial affairs of student government.

The Legislative branch includes all the elected members of Congress. These elected members serve as a resource for the various committees of Associated Student Government and participates in policy making through the congress.

The Judicial branch includes the Judicial Council of Associated Students.

Associated Student Government is involved in several areas of campus activity, including administering of a faculty course evaluation, providing a student discount service through the cooperation of local merchants, participating in university affairs through serving on several committees and work in academic affairs through the Academic Council and the College Curriculum Committees.

REGISTRATION OF STUDENT ORGANIZATIONS

University registration of a student organization does not express University endorsement or approval of the opinions, philosophy or objectives of the organization or its members. The process simply registers the organization's membership which entitles the organization by law to make reasonable use of University buildings for lawful meetings and activities and of campus bulletin boards for lawful announcements and notices.

Students may establish and maintain an organization for any lawful purposes consistent with the purposes of the University as outlined in the University catalog. A group seeking University registration must submit a petition to the Office of Student Affairs containing the following information:

A. A constituent document, e.g. charter, constitution, actives, by-laws or other specific statement of the organization's structure and rules of procedure. Contained in that statement or document should be the following:
   1. A clear statement of purposes.
   2. Requirements for and obligations of membership.
   3. A limitation on membership to matriculated students, but without any restriction based on race, religion or nationality.
   4. An affirmation or pledge that the organization is willing to comply with all laws, rules and regulations of the University as a condition to initial and continued registration status.
B. Identification of organization's authorized student leaders, and a permanent address.
C. A statement from a faculty or staff member indicating a willingness to serve as a faculty advisor.

The Office of Student Affairs shall notify the petitioning organization by letter of the action taken on the petition.

PANHELLENIC ASSOCIATION

In ancient times the term Panhellenic referred to a union of Greek states joined for the purpose of carrying out common ideas and goals. As an organization of Greek letter fraternities for women, involving both the members of the National Panhellenic

Conference and the National Panhellenic Council, the Panhellenic Association of Western Kentucky University strives to promote and strengthen the Greek system. Panhellenic stresses unity between sororities by coordinating their collective activities; it functions to build closer relationships among all members of women's fraternity groups to offer leadership and management experiences and to encourage the growth of the Greek system through community service, public relations, and social interactions.

The sororities are built on a framework of high ideals, standards, and purposes. An interaction of individuals, a sorority is designed to aid the coed in getting the most out of the college career — academically and socially. Each of the 11 national sororities at Western stresses learning, responsibility, achievement, and friendship, as well as striving to make a genuine contribution to campus life and community.

Panhellenic sponsors a scholarship through the College Heights Foundation, co-sponsors an Academic Awards Banquet, Greek Awareness Week, and various other activities and workshops.

Any student interested in joining a sorority may participate in rush early during the fall semester. Many of the sororities continue to rush throughout the year. All women who are not first semester freshmen must have at least a 2.0 grade point average in order to pledge a sorority. For more information contact the Director of Student Organizations in the Office of Student Affairs. The Greek sororities on campus are listed below.

Alpha Delta Pi
Alpha Kappa Alpha
Alpha Omicron Pi
Alpha Xi Delta
Chi Omega
Delta Sigma Theta
Kappa Delta
Phi Mu
Sigma Gamma Rho
Sigma Kappa
Zeta Phi Beta

INTERFRATERNITY COUNCIL (IFC)

Sixteen chartered chapters compose the membership of Western Kentucky University's Interfraternity Council. The IFC is the recognized organization of fraternity chapters which serves in the following capacities: governing body, service organization to chapters, coordinator of fraternity programs and representative of Greek interests to the University.

The IFC is functionally composed of eight (8) executive officers and a 32-member legislative council. The council is composed of the president and one delegate from each of the 16 fraternities.

Interfraternity Council responsibilities include administration of fraternity rush and academic programs. Rush is conducted on an open basis, which means that all men registered as full-term students are eligible to pledge a fraternity.

Rush registration takes place during both fall and spring registration at the fraternity rush table. Also, a student may register during orientation week in the Downing University Center. Any student interested in fraternity rush is invited to attend the Rush Orientation Convention at the beginning of each semester. This is one night set aside to provide information regarding the fraternity system. Representatives from each fraternity are on hand along with guest speakers, prominent fraternity alumni, and university officials.

All men who are not first semester freshmen must have a 2.0 grade point average before they will be allowed to rush. Each chapter must maintain a composite membership grade point average of 2.0.

The IFC sponsors several annual programs for benefit of the city and University Community. Included are: co-sponsorship of Spring Sing, Academic Awards Banquet, Greek Awareness Week, and various other civic and community service projects.

The IFC meets bi-monthly in room 305, Downing University Center. The IFC Office is located in room 330 of the Downing University Center, and office hours are from 1:00 to 4:00 P.M. Monday through Friday. The IFC advisor maintains an office in Potter Hall.

Each fraternity chapter promotes individual scholarship, responsibility, achievement and friendship. The fraternities at Western Kentucky University are:

Alpha Gamma Rho
Alpha Phi Alpha
Delta Tau Delta
Kappa Alpha
Kappa Alpha Psi
Kappa Sigma
Lambda Chi Alpha
Omega Psi Phi
Phi Beta Sigma
Phi Delta Theta
Pi Kappa Alpha
Pi Kappa Phi
Sigma Alpha Epsilon
Sigma Chi
Sigma Nu
Sigma Phi Epsilon
Kappa Alpha (Provisional Chapter)

WESTERN RELIGIOUS COUNCIL

Western, as a state-supported institution, must maintain a nondenominational posture; but it is distinctly interested in the spiritual lives of its students and encourages them to regularly attend the services of the church of their choice.

The Western Religious Council is composed of students who are nominated by the churches in the community, and it is organized for the purpose of fostering and encouraging the campus spiritual life.

UNITED BLACK STUDENTS

The United Black Students, composed of the black students of Western, seeks to promote the interests of blacks from cultural, educational and social standpoints. It also strives to impress upon the black student the need for black involvement on campus. It inquires into possible areas of discrimination both on and off the campus and generally seeks to aid the black students in gaining the most out of their college experience.

INTRAMURAL PROGRAM

The campus recreation program exists to provide both students and faculty/staff a setting for constructive participation in recreational activities. This program consists of men's and women's competitive sports, coed sports, faculty/staff activities, recreational free-play, and club activities.

The men's and women's competitive sports program is designed to give each student the opportunity to compete with other students in sports and games of their choice. Some of the activities included in these programs are: archery, badminton, basketball, billiards, bowling, flag football, free throw, golf, handball, horseshoes, pillo polo, racketball, softball, swimming, table tennis, tennis, track and field, turkey trot,-volleyball and wrestling.

Coed sports allow the interaction of males and females on the same team. The rules of the games are adjusted to assure equal opportunity for all. Badminton, basketball, billiards, innertube water polo, pillo polo, table tennis, tennis and volleyball are among the coed sports offered.

The faculty/staff program offers recreational activities for those people employed by Western. Volleyball, basketball, tennis and bowling are the major activities sponsored.

Recreational free-play involves the use of equipment and facilities by students during their leisure. Playing fields, tennis courts, basketball courts, handball courts, weight room and swimming pool are some of the facilities utilized.

The club program helps the student to develop a higher level of ability in a particular sport or activity. Each club is coordinated by a faculty sponsor. Sports Clubs active at this time include: backpackers, bowling, fencers, gun, judo, karate, rugby, scuba, soccer, women's softball, women's volleyball, sailing, wrestling, women's swimming, table tennis and yoga.

Students interested in any aspect of the campus recreation program should consult the Recreational Activities **Handbook** or phone 745-5216. The offices are located in rooms 148, 148a and 150 of Diddle Arena.

DEPARTMENTAL CLUBS

AIESEC (International Association of Students in Economics and Management
Accounting Club
Association for Computing Machinery
Beta Beta Beta Biology Club
Block and Bridle Club
Chemistry Club
Cherry Country Life Club
Distributive Education Clubs of America (DECA)
Dental Hygienists Association
Education Association (SNEA)
Environmental Technology Club
Folk Studies Society
Forensic Union
Geology Club
Home Economics Association
Industrial Education and Technology Club
Institute of Electrical and Electronic Engineers
Institution Administration Society
Interior Designers, American Society of
Library Science Student Association
Manufacturing Engineers, American Society of
Marketing Club
Mechanical Engineers, American Society of
Music Educators National Conference
National Collegiate Association for Secretaries (NCAS)
National Student Speech and Hearing Association
Nursing Students, Kentucky Association of
Pre-Law Club
Public Administration Club
Public Health Association
Ragland Library Club
Recreation Majors Club
Russian Club
Social Workers, Association of
Society of Physics Students
Special Forces
Student Council for Exceptional Children

GENERAL ORGANIZATIONS

Afro-American Players
Amateur Radio Club
Amazing Tones of Joy
Bowling Club
Broadcasting Association
Democrats, Young
Fencers
Foosball Club
Frisbee Team
Gemini 15
Green River Readers
Horticulture Club
Intercollegiate Horsemen's Association
International Club
Karate Club
Kentucky Civil Liberties Union
NAACP
Rebelettes
Republicans, Young
Rugby Club
Sailing Club
Sky Diving
Soccer Club
Speculative Fiction
Table Tennis Club
Tubist Universal Brotherhood Association (TUBA)
United Black Greeks
United Black Students
Western Players
Women's Rugby Club
Women's Softball Club
Women's Swim Club
Women's Volleyball Club

PROFESSIONAL ORGANIZATIONS

Alpha Kappa Psi (Business)
Data Processing Management Association
Delta Omicron (Music)
Delta Sigma Pi (Business Administration)
Eta Sigma Gamma (Health and Safety)
Phi Beta Lambda (Business)
Phi Mu Alpha Sinfonia (Music)
Phi Upsilon Omicron (Home Economics and Family Living)
Public Relations Society of America
Sigma Delta Chi (Journalism)
Sigma Tau Delta (English)
Sigma Delta Chi (Journalism)
Zeta Phi Eta (Communication, Arts and Sciences)

HONOR SOCIETIES

Alpha Epsilon Delta (Pre-Med)
Delta Phi Alpha (German)
Delta Sigma Rho-Tau Kappa Alpha (Forensics: Debate)
Gamma Beta Phi
Kappa Delta Pi (Education)
Omicron Delta Kappa
Phi Alpha Theta (History)
Phi Eta Sigma (Freshman Scholarship)
Pi Delta Phi (French)
Pi Mu Epsilon (Math and Computer Science)
Pi Omega Pi (Business Education and Office Administration)
Pi Sigma Alpha (Government)
Psi Chi (Psychology)
Sigma Delta Pi (Spanish)
Sigma Pi Sigma (Physics)
Sigma Tau Delta (English)

RECOGNITION SOCIETIES

Alpha Psi Omega (Drama)
Kappa Pi (Art)
Pershing Rifles
Scabbard and Blade

SERVICE ORGANIZATIONS

Alpha Phi Omega
Gamma Sigma Sigma
Circle K Club

UNIVERSITY LECTURE SERIES

The University Lecture Series of Western Kentucky University has played an important role in the life of the institution from its founding in 1907. Originally, all lectures were sponsored solely by Western, but in recent years increased interest in the lecture series has resulted in a cooperative effort in sponsorship. Currently, University lecturers are sponsored in one of four ways:

University Lectures: One or more lecturers each year is invited to participate in the lecture series by the University.

W.K.U.—Associated Students Lectures: Several lecturers are jointly sponsored by Western Kentucky University and Associated Students.

W.K.U.—Department Lectures: Frequently, the University joins with departments in sponsoring lecturers on campus.

Rodes-Helm Lectures: The Rodes-Helm Lecture Series was endowed in 1961 by Mr. and Mrs. Harold H. Helm, of Montclair, New Jersey. Mr. Helm is Chairman of the Directors' Advisory Committee of the Chemical Bank, New York City, and is a director of numerous prominent concerns. Both he and Mrs. Helm are natives of Bowling Green and were educated in part in Ogden College and Western respectively. Later Mr. Helm attended Princeton University, of which he is a life trustee, and Mrs. Helm attended the University of Wisconsin.

The lecture series is named in honor of Judge John B. Rodes, former Circuit Judge of Warren County, and Miss Margie Helm, former Director of Library Services at Western Kentucky State College. Judge Rodes is the father of Mrs. Harold Helm. Miss Helm is the sister of Mr. Harold Helm. The endowment fund is to be kept intact, and the income from it is to be devoted to bringing distinguished lecturers to the Western Campus.

INTERCOLLEGIATE COMPETITION

Western has intercollegiate athletic teams in football, basketball, baseball, golf, track, crosscountry, swimming and tennis. The University is a member of and adheres to the regulations of the Ohio Valley Conference and the National Collegiate Athletic Association.

A comprehensive program of intercollegiate competition in forensic activity is afforded to qualifying students at Western. This program includes the debate team and numerous oratorical contests.

Other forms of intercollegiate competition include a rifle team, a drill team, business teams and agricultural judging teams.

DERO DOWNING UNIVERSITY CENTER

The Dero Downing University Center, opened in 1970, has become the hub of student activity and is the center of Western's recreational and entertainment programs.

The four-story structure is a multipurpose facility for the entire University community which houses:

The Office of the College Heights HERALD and TALISMAN, Western's student publications, the Office of the Director of Food Service, and a Craft Shop on the first floor.

A cafeteria seating 500 persons which serves two meals per day Monday through Friday; a snack bar seating 500 and open during the hours the Center is open; a 750-seat theatre showing contemporary movies seven nights per week; the Lobby Shop, containing candy, snacks, and school supplies; the Office of the Director of University Centers and the main lobby on the second floor.

A stereo-listening center; art exhibit area and reading room; travel resource center; the Office of the Associated Student Government; Offices of the Interfraternity Council and the Panhellenic Council and the College Heights Bookstore on the third floor.

A recreational center equipped with 12 bowling lanes, billiards, table tennis, coin-operated games, game tables, various other games; a concession area; a big-screen TV and an outdoor patio on the fourth floor.

Hours are 7:00 A.M. until 11:30 P.M., Sunday through Thursday and 7:00 A.M. until 12:00 midnight, Friday and Saturday.

PAUL L. GARRETT CONFERENCE CENTER

The Paul L. Garrett Conference Center was constructed in 1953 as the campus student center. When the Dero Downing University Center was opened, the Western Board of Regents designated the Paul L. Garrett Conference Center to be used primarily for meetings and special University events.

The center houses a cafeteria and snack bar, meeting rooms, a ballroom with a capacity of 1,200 persons, a television viewing room and the University Post Office. Most student organizations hold their regular meetings at the center.

UNIVERSITY CENTER BOARD

The University Center Board, through its various committees, has the responsibility for planning and presenting a campus-wide program of activities and programs in the following areas: contemporary music, lectures, recreation, leisure learning activities, special programs, and cultural programs. The Center Board also serves in an advisory capacity to University Center personnel.

The Center Board is composed of students selected by various organizations and segments of the campus community, faculty, and staff. The program committees are composed of students appointed by the Center Board.

STUDENT LIFE POLICIES

Students are citizens and members of the University academic community. All citizens enjoy the rights and liberties assured by the constitutions of the Commonwealth of Kentucky and the United States of America. Likewise, they are subject to the responsibility and obligation to accord respect to the rights of others.

Specific regulations on student life policies are spelled out in the student handbook, **Hill Topics**, which is distributed to each student at registration.

ACADEMIC INFORMATION

TYPES OF DEGREES

Western Kentucky University confers five baccalaureate degrees, three associate degrees and eight graduate degrees.

BACCALAUREATE DEGREES

Western Kentucky University confers five baccalaureate degrees: the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Music, the Bachelor of Science and the Bachelor of Science in Nursing. For the degree awarded upon the completion of a specific program of study, consult the chart found under "Academic Programs" in this chapter.

ASSOCIATE DEGREES

Western Kentucky University confers three associate degrees: the Associate of Arts, the Associate of Science and the Associate of Liberal Studies. For the degree awarded upon the completion of a specific program of study, consult the chart found under "Academic Programs" in this chapter or the Bowling Green Community College Bulletin.

GRADUATE DEGREES

The University confers six masters degrees: Master of Arts, Master of Arts in Education, Master of Science, Master of Public Service, Master of Business Administration, and Master of Music.

The University confers the Specialist in Education and the Specialist in College Teaching degrees and offers cooperative doctoral programs. For details on graduate degrees and programs, see the Graduate College Bulletin.

RECOGNITION OF ACADEMIC ACHIEVEMENT

The University provides a system through which students with outstanding academic records are appropriately recognized. Each semester students with high academic records for the preceding semester are recognized according to the following categories:

Dean's List—Students whose grade point average for the preceding semester ranged between 3.40-3.79.

President's Scholars—Students whose grade point average for the preceding semester ranged between 3.80-4.00.

Students who maintain superior cumulative grade point averages are recognized at graduation exercises according to the following designations:

Cum Laude—The graduating honor given to students who have completed their baccalaureate study with a cumulative grade point average of 3.40-3.59 and have been in residence at Western for at least two years.

Magna Cum Laude—The graduating honor given to students who have completed their baccalaureate study with a cumulative grade point average of 3.60-3.79 and have been in residence at Western for at least two years.

Summa Cum Laude—The graduating honor given to students who have completed their baccalaureate study with a cumulative grade point standing of 3.80-4.00 and have been in residence at Western for their entire programs of study.

Scholars of the College—At the Honors Convocation, the five graduating students in each of the undergraduate colleges with the highest grade point averages and at least two years in residence at Western are designated as "College Scholars." At spring and summer commencements, on the basis of the total cumulative grade point average and a minimum of two years residence at Western, one student from each undergraduate college is designated "Scholar of the College."

Ogden Scholarship Award—The honor given the graduating senior at the Spring Commencement who has the highest cumulative grade point average for the baccalaureate work with the entire program at Western.

R. C. P. Thomas Award—The honor given the graduating senior at the Summer Commencement who has the highest cumulative grade point average for the baccalaureate work with the entire program at Western.

HONORS PROGRAM

The Honors Program was established to assist superior students to achieve personal and academic goals and to fulfill their full intellectual potential. In addition to the University Honors Program, a program is held each summer for superior high school students who have completed the junior year.

UNIVERSITY HONORS PROGRAM

Admission to the Honors Program requires the entering student to have an ACT composite score of at least 22 and a high school GPA of 3.5 or above. A student with previous college work who has a cumulative college GPA of 3.0 or above is eligible. Applying for and gaining acceptance to the Honors Program does not commit the student to taking a specified number of hours in Honors courses. It does ensure receipt of information concerning course offerings and program activities and allows the student to participate in those of interest.

To receive transcript designation as an Honors Program Participant, the graduating senior must have a cumulative GPA of at least 3.3 and must have completed a minimum of 12 hours of Honors coursework, including at least three hours of Independent Investigation. Honors students frequently complete baccalaureate degree requirements in less than four years by gaining freshmen-level credit through examination programs and by taking full course loads.

Honors courses have limited enrollment in order that more discussion and interaction can take place. Honors students should examine Honors Program listings and departmental listings in the course schedule bulletin each semester for information as to Honors courses and Honors sections of regular courses.

The Honors Program provides the following course and program opportunities for qualifying students:

Colloquia—Interdisciplinary seminars through which students explore and exchange ideas, 1.5 hours each. The 100-101 colloquia fulfill the General Education requirement in Category F.

Special Topics Investigations—Courses on varying subject areas which are developed especially for Honors students, often in response to their requests, 1-3 hours each.

Independent Investigation—Under direction of a faculty advisor, Honors students may undertake the personal study of a topic not available in regular coursework, 1-3 hours.

Honors Designated Courses—Honors sections (designated by "H" following the course number) of regular courses, often for general education credit.

Area Study Major in Honors —Honors participants may choose to design for themselves, working closely with faculty advisors, interdisciplinary programs of study. The resulting individualized program may serve as the student's first or second major or as an area of concentration. Honors students have developed programs in such areas as International Business, The Scientific Study of Man, Asian Studies and Creative Communication.

Honors Research Bulletin—This annual journal-size publication contains the five best student research papers from each of the colleges within the University. An award is given for the best paper of the year, and Honors students are encouraged to take advantage of this unique opportunity to see their work published.

HIGH SCHOOL JUNIORS SCHOLARS PROGRAM

Through the High School Junior Scholars Program, Western offers superior high school students an opportunity to enroll in regular university courses during the summer between their junior and senior years and provides scholarships for a limited number of these students. Students who are selected to participate in the program are required to live in University residence halls, and special activities are provided in an effort to acquaint the students with a broad spectrum of the university. The program allows students to explore areas of interest and assists them in academic, career, and vocational interest choices. Students who have been Junior Scholars have consistently exhibited superior performance in their subsequent college experience.

Courses and Credit—Any lower division (100-200) level course offered by the University during the summer term is open to students in the Junior Scholars Program, although enrollment in courses with prerequisites requires special permission of the instructor. University Honors Program Colloquia are taken by all participants in addition to the regular courses in which they enroll. All credit earned in this program is fully applicable toward a college baccalaureate degree program, and many students participating in the High School Junior Scholars Program will also be eligible to obtain credit by examination (CLEP) and through the proficiency testing program at Western. These programs enable students to receive credit in certain courses by taking examinations rather than enrolling in the courses. Full information about the examinations is shared with all of the scholars, and each will be advised as to specific courses for which he/she is eligible to earn such credit.

Requirements—Applications must be completed by April 1. Applicants to the High School Junior Scholars Program should have a high school cumulative grade point average of 3.5 (on a 4.0 perfect scale), a national test composite score (ACT or PSAT) ranked in the top 15 percent range, and a strong recommendation from the high school principal and high school guidance counselor. Capable students who do not meet the criteria for the Junior Scholars Program may, between their junior and senior years in high school, attend (as regular students) one or both of Western's summer terms upon recommendation of the high school principal, high school guidance counselor, and the Office of Admissions at Western.

Scholarship Standards—Recipients of the available scholarships for the program must meet the above criteria, but other factors will also be considered. The scholarships cover all registration fees and housing fees, with the recipients paying only for meals, books, transportation to and from campus, etc. Scholarship decisions will be made by May 15.

For further information on the University Honors Program, or the High School Junior Scholars Program contact Dr. Faye Robinson, Director, University Honors Program, Room 217 Wetherby Administration Building, Western Kentucky University, Bowling Green, KY 42101.

DEVELOPMENTAL STUDIES

The Developmental Studies Program provides learning experience designed to meet the needs of Western's students who are inadequately prepared in one or more academic areas. Structured course work, learning laboratories, and self-instructional materials, supported by individual counseling and advising, are used to promote the academic success of students needing to upgrade specific skills and abilities.

Developmental courses in English are supplemented by a learning laboratory which provides instructional materials and help for individual students in a laboratory setting. The College Reading Improvement course focuses on reading comprehension, vocabulary development and study skills and is designed to meet the needs of individual students. For information on these and other course offerings and student services offered through the Developmental Studies Program or for advice on additional courses and experiences which are specifically designed to promote student achievement, contact the Coordinator of Developmental Studies, Room 27, Cherry Hall.

A baccalaureate degree requires a **minimum of 128 semester hours.** Students must arrange their degree program by choosing one of the following options:

Option I (minimum of 54 hours)
A. Major
B. Minor

Option II (minimum of 48 hours)
Area of Concentration

Option III (minimum of 54 hours)
A. First Major
B. Second Major

Option IV (minimum of 54 hours)
A. Major
B. First Minor
C. Second Minor

Option V (minimum 60 hours)
Major

Approved majors, minors and areas of concentration are listed on the following pages. Any specific admission or course requirements may be found in the college or departmental section of this bulletin. Only approved majors requiring 60 hours minimum are available under option V above.

In addition to one of the above options, each student must complete 53/54 semester hours of **general education courses** and **electives** to total the minimum of 128 semester hours. For details refer to the section of this chapter on "General Education Requirements."

Since some programs in the chart of academic programs which follows are non-certifiable, students seeking **teacher certification** should consult the section, "Teacher Education Programs and Requirements," in this chapter for a list of certifiable programs and the required professional education courses.

Students may also select from the **preprofessional, associate degree and certificate programs** listed on the following pages.

Once a student decides on a program of study, the student should contact the academic advisor of that program or the department head for the requirements. Particular degree and curricular requirements of the various programs are frequently changed, therefore, current requirements should be obtained from the academic departments.

MAJORS

Reference Number	Name of Major	Degree	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
602	Accounting	B.S.	69	Hays	GH 402	3895	115
727	Advertising	A.B.	36	Stringer	AC 313	4143	103
605	Agriculture	B.S.	24/36	Worthington	EST 269	3151	149
608	Anthropology	A.B.	30	Toups	GH 116	3759	189
610	Area Study Major in Honors	A.B. or B.S.	30	Robinson	WAB 217	2296	35
617	Biology	B.S.	30	Yungbluth	TCNW 201-A	3696	154
726	Broadcasting	A.B.	33	O'Connor	FAC 131	3296	86
620	Business Education	B.S.	60	Sharpe	GH 502	3097	116
623	Chemistry	B.S.	30	Boucher	TCCW 445	3457	157
626	Community Health	B.S.	37/41	Dunn	STH 412	4797	62
628	Comprehensive Business	B.S.	63	Fletcher	GH 200	5283	124
629	Computer Science	B.S.	30	Davis	TCCW 112	2911	172
632	Distributive Education	B.S.	60	Sharpe	GH 515	5283	116
635	Earth Science	B.S.	30	Hoffman	EST 305	4555	166
638	Economics	A.B.	30	Wassom	GH 431	2249	119
659	Engineering Physics	B.S.	30	Humphrey	TCCW 218	4357	178
662	English	A.B.	39	Flynn	CH 114	3043	91
664	Finance	B.S.	63	Fletcher	GH 200	5283	121
665	French	A.B.	30	Babcock	FAC 278	2401	95
674	Geography	B.S.	33	Hoffman	EST 305	4555	166
677	Geology	B.S.	33	Hoffman	EST 305	4555	166
680	Geophysics	B.S.	34	Seeger	EST 317	4555	166
683	German	A.B.	30	Baldwin	FAC 280	2401	95
686	Government	A.B.	30	Masannat	GH 300	4558	185
689	Health Education	B.S.	30	Baum	STH 410C	4797	62
692	Health and Safety	B.S.	36	Baum	STH 410C	4797	62
695	History	A.B.	34	Troutman	CH 201-A	3841	99
698	History and Government	A.B.	43	Troutman	CH 201-A	3841	99
701	Industrial Arts Education	B.S.	36	Pittman	EST 226	3251	128

MAJORS

Reference Number	Name of Major	Degree	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
704	Industrial Technology	B.S.	32	Wendt	EST 221	3251	128
706	Information Systems	B.S.	72	Fletcher	GH 227	5283	121
707	Institution Administration Hotel-Motel Management	B.S.	34	Gibbs	AC 209-D	4352	67
710	Institution Administration Restaurant Management	B.S.	36	Gibbs	AC 209-D	4352	67
713	Interior Design	B.S.	35	Jenkins	AC 302-B	4352	67
716	Journalism	A.B.	33	Highland	AC 323	4143	102
717	Journalism Education	A.B.	33	Adams	DUC 127	2653	102
722	Library Science	A.B.	30	Guthrie	HL 3	3446	72
723	Management	B.S.	63	Fletcher	GH 200	5283	124
724	Managerial Economics	A.B.	72	Wassom	GH 431	2249	119
720	Marketing	B.S.	66	Fletcher	GH 200	5283	124
725	Mass Communications (General)	A.B.	32	O'Connor	FAC 131	3296	86
728	Mathematics	A.B.	32	Bueker	TCCW 357	3651	172
735	Music — B.S. (with Elem. Ed. major)	B.S.	37	Simmons	FAC 312	3751	106
740	Office Administration	B.S.	69	Sharpe	GH 502	3097	117
745	Philosophy	A.B.	24	Nash	CH 300	3136	109
748	Philosophy and Religion	A.B.	33	Nash	CH 300	3136	109
750	Photojournalism	A.B.	33	Morse	DUC 127	2653	102
751	Physical Education	B.S.	39	Oglesby	SS 316	3347	134
754	Physics	B.S.	30	Humphrey	TCCW 218	4357	178
757	Physics and Astronomy	B.S.	41	Humphrey	TCCW 218	4357	178
760	Psychology	A.B.	24/30	McFarland	CEB 255	2695	138
763	Public Relations	A.B.	36	Blann	AC 321	4143	103
765	Quantitative Business Analysis	B.S.	66	Fletcher	GH 200	5283	121
766	Recreation	B.S.	30/36	Little	DA 222	3591	134
769	Religious Studies	A.B.	30	Long	CH 319A	3136	109
775	Sociology	A.B.	30	Wozniak	GH 120	3759	189
778	Spanish	A.B.	30	Brown	FAC 253	2401	95

MAJORS

Reference Number	Name of Major	Degree	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
792	Speech	A.B.	27/30	O'Connor	FAC 131	3296	86
794	Speech and Theatre (Teacher Certification only)	A.B.	36	O'Connor	FAC 131	3296	86
796	Textiles and Clothing	B.S.	34	Jenkins	AC 302-B	4352	68
798	Theatre	A.B.	30	O'Connor	FAC 131	3296	86

AREAS OF CONCENTRATION

Reference Number	Name of Area	Degree	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
505	Administrative Service	B.S.	69/80	Uveges	GH 331	3893	186
508	Agriculture	B.S.	50	Worthington	EST 269	3151	149
511	Allied Health Education (Health Occupation/Teacher Education)	B.S.	48	Schira	STH 408-C	4797	63
512	Area Study Major in Honors	A.B. or B.S.	48	Robinson	WAB 217	2296	35
514	Art	B.F.A.	63	Gluhman	FAC 441	3944	83
515	Art (Commercial Art Option B.F.A.)	B.F.A.	60	Gluhman	FAC 441	3944	83
516	Art Education (Secondary)	A.B.	54	Gluhman	FAC 441	3944	83
521	Community Health	B.S.	60	Dunn	STH 412	4797	63
523	Dietetics and Institution Administration	B.S.	48/64	Gibbs	AC 209-D	4352	68
527	Elementary Education	B.S.	56	Stevenson	CEB 351	5414	140
532	Engineering Technology — Broadcast	B.S.	64	Carr	STH 309-B	2461	160
535	Engineering Technology — Civil	B.S.	54	Tate	STH 200-A	2461	160
538	Engineering Technology — Electrical	B.S.	55	Tate	STH 200-A	2461	161
541	Engineering Technology — Environmental	B.S.	49	Rowe	STH 207	2461	161
544	Engineering Technology — Mechanical	B.S.	52	Tate	STH 200-A	2461	161
547	English and Allied Language Arts	A.B.	54	Flynn	CH 114	3043	91
550	Environmental Science	B.S.	52/53	Russell	STH 309-C	2461	132
551	Exceptional Children — Learning and Behavior Disorders	B.S.	49	Crooks	CEB 114	5414	142
552	Exceptional Children — Trainable Mentally Handicapped	B.S.	49	Crooks	CEB 114	5414	142

AREAS OF CONCENTRATION

Reference Number	Name of Area	Degree	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
595	Exceptional Children — Speech and Communication Disorders	B.S.	50	Englebright	CEB 104	5414	142
556	General Science	B.S.	67	Wolff	TCCW 231	4357	178
559	Health Care Administration	B.S.	56	Burt	AC 206-C	4641	63
562	Home Economics Education	B.S.	68	Floyd	AC 303	4352	68
565	Hydrology	B.S.	99	Hoffman	EST 305	4555	166
568	Industrial Arts Education	B.S.	51	Pittman	EST 226	3251	128
571	Industrial Technology	B.S.	52	Wendt	EST 221	3251	129
574	Interior Design	B.S.	54/60	Jenkins	AC 302-B	4352	68
580	Mathematics and Physical Science	B.S.	58	Wolff	TCCW 231	4357	178
582	Medical Technology	B.S.	67	Rush	AC 208	4641	79
583	Music — B.A. (Hist. and Lit., Theory and Comp., Performance)	A.B.	48	Hobbs	FAC 353	3751	105
584	Music Education — B.M. (K-12)	B.M.	56/58	Hobbs	FAC 353	3751	105
585	Music/Performance — B.M.	B.M.	71	Hobbs	FAC 353	3751	105
586	Nursing	B.S.N.	68	Hazzard	AC 111	3391	75
588	Performing Arts — B.F.A. (Music, Dance, Theatre)	B.F.A.	63	Leonard	FAC 106	3296	86
590	Psychobiology	B.S.	54	Miller	CEB 257	2695	138 & 154
589	Recreation	B.S.	48	Little	DA 222	3591	134
592	Social Studies	A.B.	64	Troutman	CH 201-A	3841	99
594	Social Work	B.S.	60	Berry	GH 230	5312	190
597	Textiles and Clothing	B.S.	54	Jenkins	AC 302-B	4352	68
599	Vocational-Industrial and Technical Teacher Education	B.S.	71	Crisp	EST 209	5551	129

MINORS

Reference Number	Name of Minor	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
302	Accounting	21	Hays	GH 402	3895	115
305	Afro-American Studies	21	White	GWH 313	3111	93
308	Agriculture	18/21	Worthington	EST 269	3151	149

MINORS

Reference Number	Name of Minor	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
311	Anthropology	21	Toups	GH 116	3759	190
312	Art	27	Gluhman	FAC 441	3944	83
314	Art Education (Elem.)	54	Gluhman	FAC 441	3944	83
317	Asian Studies	21	Custead	FAC 154	3944	202
320	Athletic Coaching	18/23	Oglesby	SS 316	3347	134
323	Athletic Training	29	Miller	SS 133	3347	134
324	Biochemistry	18	Craig	TCCW 437	3457	183
326	Biology	18	Yungbluth	TCNW 201-A	3696	154
329	Biophysics	18/21	Coohill	TCNW 211	3696	178 & 184
330	Broadcasting	18	O'Connor	FAC 131	3296	86
332	Business Administration	24	Fletcher	GH 200	5283	125
335	Chemistry	18/21	Boucher	TCCW 445	3457	157
338	Child Development and Family Living	21	Hedges	AC 403-A	4352	68
341	Computer Science	18	Davis	TCCW 111	2911	173
344	Dance	24	Leonard	SS 308	3347	86
350	Dental Hygiene	37	Godby	AC 215	2426	61
353	Earth Science	21	Hoffman	EST 305	4555	167
356	Economics	21	Wassom	GH 431	2249	119
359	English	27	Flynn	CH 114	3043	91
360	Film Studies	18	Pearse	FAC 190	3296	87
362	Folklore	18/21	Montell	GWH 304	3111	93
365	French	24	Babcock	FAC 278	2401	95
368	General Business	24	Sharpe	GH 502	3097	117
371	General Home Economics	19	Floyd	AC 303	4352	68
374	Geography	21	Hoffman	EST 305	4555	167
377	Geology	21	Hoffman	EST 305	4555	167
380	German	24	Baldwin	FAC 280	2401	95
383	Government	21	Masannat	GH 300	4558	186
386	Health Care Administration	21	Burt	AC 206-C	4641	63
389	Health Education	22	Baum	STH 410-C	4797	63

MINORS

Reference Number	Name of Minor	Minimum Hours	Advisor Name	Office	Phone	Catalog Page No.
392	History	25	Troutman	CH 201-A	3841	99
459	Human Services	21	Berry	GH 230	5312	190
395	Industrial Technology	18	Wendt	EST 221	3251	129
347	Information Systems	18	Fletcher	GH 227	5283	122
398	Interior Design	18/24	Jenkins	AC 302-B	4352	68
402	Journalism (Education)	21	Adams	DUC 127	2653	102
405	Latin	24	Brown	FAC 253	2401	95
408	Latin American Studies	21	Nolan	CGC 209	5333	201
411	Library Science	18/21	Guthrie	HL 3	3446	72
414	Mass Communications	21	O'Connor	FAC 131	3296	87
417	Mathematics	18/21	Bueker	TCCW 357	3651	172
420	Military Science	20/23	Halbman	DA 114	4293	73
423	Music	24	Hobbs	FAC 353	3751	106
426	Nursing	31	Hazzard	AC 111	3391	75
429	Philosophy	18	Nash	CH 300	3136	110
432	Physical Education	25	Oglesby	SS 316	3347	135
435	Physics	18/21	Humphrey	TCCW 218	4357	179
438	Psychology	18/21	McFarland	CEB 255	2695	138
441	Radiologic Technology (clinical curriculum taken at another institution)		Baughman	STH 307-B	4797	79
444	Recreation	21	Little	DA 222	3591	135
447	Religious Studies	21	Long	CH 319-A	3136	110
450	Russian	24	Ritter	FAC 241	2401	95
453	Secretarial Science	24	Sharpe	GH 502	3097	117
461	Sociology	21	Wozniak	GH 120	3759	189
464	Spanish	24	Brown	FAC 253	2401	95
467	Special Education	21	Crooks	CEB 114	5414	142
480	Speech	18/21	O'Connor	FAC 131	3296	87
485	Textiles and Clothing	18/24	Jenkins	AC 302-B	4352	68
490	Theatre	18/21	O'Connor	FAC 131	3296	87

PRE-PROFESSIONAL

Reference Number	Name of Program	Advisor Name	Office	Phone	Catalog Page No.
805	Pre-Chiropractic	Rush	AC 208	4641	80
810	Pre-Dental	Shank	TCNW 307	3457	80 & 182
815	Pre-Engineering	Humphrey	TCCW 218	4357	182
820	Pre-Forestry	Normand	EST 254	3151	182
825	Pre-Law	Sullivan	GH 330	3893	194
830	Pre-Medical	Shank	TCNW 307	3457	80 & 182
835	Pre-Optometry	Neel	AC 218	2426	80
840	Pre-Pharmacy	Hartman	TCNW 321	3457	81 & 182
845	Pre-Physical Therapy	Lohr	AC 211	4641	81
855	Pre-Professional Speech Pathology	Cooke	AC 211	5281	78
860	Pre-Theology	Veenker	CH 319C	3136	112
865	Pre-Veterinary Medicine	Worthington	EST 269	3151	182

ASSOCIATE DEGREE PROGRAMS

Reference Number	Name of Program	Degree	Advisor Name	Office	Phone	Catalog Page No.
202	Agricultural Equipment Management	A.S.	Worthington	EST 269	3151	149
205	Agriculture Technology and Management	A.S.	Worthington	EST 269	3151	149
207	Architectural Drafting Technology	A.S.	Roberts	EST 106	3251	129
209	*Aviation Maintenance Technology	A.S.	Conley	EST 209	3251	129
211	Banking	A.A.	Fletcher	GH 501	5283	122
214	Building Construction Technology	A.S.	Tomazic	EST 218	3251	129
217	Cartographic and Mapping Technology	A.S.	Ahsan	EST 335	4555	167
220	Civil Engineering Technology	A.S.	Tate	STH 200-A	2461	161
226	Dental Hygiene	A.S.	Godby	AC 215	2426	61
229	Drafting and Design Technology	A.S.	Dye	EST 139	3251	129
232	Electrical Engineering Technology	A.S.	Moore	STH 309-E	2461	161
235	Fire Technology	A.S.	Wright	STH 307-C	4797	63
241	Graphic Reproduction Technology	A.S.	Tomazic	EST 218	3251	129
244	Health Care Administration	A.S.	Burt	AC 206-C	4641	63

ASSOCIATE DEGREE PROGRAMS

Reference Number	Name of Program	Degree	Advisor Name	Office	Phone	Catalog Page No.
247	Industrial Electrical Technology	A.S.	Eversoll	EST 225	3251	129
250	Industrial Plastics Technology	A.S.	Towell	EST 104	3251	129
223	Information Systems	A.A.	Fletcher	GH 227	5283	122
253	Legal Secretarial Administration	A.A.	Sharpe	GH 502	3097	117
255	Liberal Studies	A.L.S.	Nave	VM 212	4158	196
257	Manufacturing Technology	A.S.	Conley	EST 221	3251	129
260	Mechanical Engineering Technology	A.S.	Healey	EST 309-D	2461	161
262	Medical Records Technology	A.S.	Palmer	STH 415	5239	79
263	Medical Secretarial Administration	A.A.	Allen	GH 504	3097	117
266	Metals Technology	A.S.	McPhail	EST 138	3251	130
269	Meteorological Technology	A.S.	Cockrill	EST 429	4555	167
272	Nursing	A.S.	Hazzard	AC 111	3391	75
275	Occupational Safety and Health	A.S.	Carter	STH 307-D	4797	64
278	Power Mechanics Technology	A.S.	Hein	EST 223	3251	130
279	*Printing Technology	A.S.	Tomazic	EST 218	3251	130
281	*Radiologic Technology	A.S.	Baughman	STH 307-B	4797	79
284	Real Estate	A.A.	Fletcher	GH 517	5283	122
287	Retailing	A.A.	Finley	GH 516	5283	125
290	Secretarial Administration	A.A.	Sharpe	GH 502	3097	117
293	Small Business Management	A.A.	Finley	GH 518	5283	125
294	Technical Illustration	A.S.	Dye	EST 139	3251	130
296	Vocational-Industrial and Technical Teacher Education	A.S.	Crisp	EST 209	5551	130
299	Wood Products Technology	A.S.	Pittman	EST 226	3251	130

*These are cooperative programs with parts of the programs to be completed at accredited vocational technical schools.

CERTIFICATE PROGRAMS

Reference Number	Name of Program	Advisor Name	Office	Phone	Catalog Page No.
192	High School ROTC Instruction	Halbman	DA 114	4293	73
195	Real Estate	Fletcher	GH 517	5283	122
197	Secretarial Science	Sharpe	GH 502	3097	117

DEGREE REQUIREMENTS

Curriculum Requirements—All candidates for a Bachelor's Degree must complete one of the four-year academic programs offered by the University. Each candidate must have completed a minimum of 128 semester hours.

Academic Standing—A candidate for the Bachelor's Degree must have a scholastic standing of at least 2.0 (1) in all credits presented for graduation whether earned at Western or elsewhere, (2) in all credits completed at Western, (3) over-all in the major subjects and in the minor subjects, or in the area of concentration, and (4) in the major subjects and in the minor subjects, or in the area of concentration completed at Western. Students desiring teacher certification must fulfill all academic requirements for teacher certification in the major, minor, or area of concentration, in addition to meeting the requirements for graduation.

Course Requirements—At least one-third of the course requirements in the major, minor and area of concentration must be earned at Western.

At least one-half of the semester hours required for the major, minor and area of concentration must be earned in courses numbered 300 and above (except a minor in Dental Hygiene and mathematics). For this requirement on a minor in mathematics, refer to the catalog section, Department of Mathematics. There is no upper division requirement for the Dental Hygiene minor.

A minimum of 54 semester hours must be completed in courses numbered 300 and above, except as shown with the following majors and areas of concentration.

Ref. No.	Major	Upper Division Hours
617	Biology	42
623	Chemistry	42
677	Geology	42
680	Geophysics	45
728	Mathematics (noneducation)	42
629	Computer Science	42
754	Physics	42
659	Engineering Physics	42
757	Physics & Astronomy	42

Ref. No.	Area of Concentration	Hours
532	Broadcast — Eng. Tech.	44
535	Civil — Eng. Tech.	48
538	Electrical — Eng. Tech.	42
541	Environmental — Eng. Tech.	48
544	Mechanical — Eng. Tech.	46
550	Environmental Science	49

With the above exception the 54 semester hour requirement will be effective for students graduating after the 1980 August commencement.

Residence Requirements—The minimum residence requirement for the Bachelor's Degree is 36 weeks, in which at least 32 semester hours must be earned. Not fewer than 18 of the 36 weeks must be in the senior year, regardless of the length of time the student has attended Western or other institutions. Exception to this regulation may be made for Western students who have been given permission to transfer credits earned at accredited professional schools to apply as electives on an undergraduate degree program.

A student must earn 16 semester hours in residence at Western to fulfill requirements for an Associate Degree. One-third of the hours in the specialty must be earned at Western. With the exception of military personnel pursuing the Associate of Liberal Studies degree, twelve semester hours used toward the associate degree must be taken at Western during the last half of the student's program. Students having earned an associate degree, baccalaureate or master's degree from an accredited institution may earn an associate degree from Western provided all requirements for the associate degree have been met, at least 18 semester hours counted on the degree have been earned in residence at Western and at least 9 semester hours in the primary field of study have been earned in residence at Western.

A student is permitted to transfer a maximum of six semester hours toward a one-year certificate program.

Transfer of Credits — Credits earned at other accredited American institutions of higher education may be transferred to Western and applied toward a degree. The "Transfer Credit Practices" report published by the American Association of Collegiate Registrars and Admission Officers will be the reference used for the evaluation of such credits.

Generally, two years of credit applicable toward a baccalaureate degree may be accepted from a junior or community college. Hours taken beyond the first two years may be accepted for transfer from a junior or community college when appropriate and when permission is given by the Registrar.

Credits earned through educational institutions located outside the United States will be considered for acceptance after an appropriate evaluation. Students may contact the office of Admissions for information regarding the evaluation procedure.

Degree Program—Not later than the first semester of the junior year, all students are required to file an undergraduate degree program with the Center for Academic Advisement, Career Planning and Placement.

The department head in the major area must approve the selection of the student's first minor in the degree program. In addition, students who follow the secondary education program should have their program approved by the head of the Teacher Education Department.

The degree program will be recognized by the University in the following way:

The University will recognize the course of study approved in the de-

gree program for a period of five calendar years computed from the date the degree program was officially approved by the Center for Academic Advisement, Career Planning and Placement. This does not preclude the addition of requirements arising from action of the State of Kentucky or additions which may arise out of undetected errors or omissions in the original program. Any change in institutional requirements which will work to the advantage of the student may be substituted for the requirements in effect when the degree program was initially approved.

All conditions must be removed, all transfers of credit made, and all correspondence courses finished by the middle of any semester or term at the close of which the student expects to receive a degree. The student must, in all cases, be primarily responsible for meeting the requirements for graduation.

Second Baccalaureate Degree—A student who has successfully completed the requirements for one baccalaureate degree at Western Kentucky University or another accredited college or university may earn a second baccalaureate degree upon the completion of the curriculum for the second degree as approved by the major department, provided that the work completed includes at least 30 semester hours above the total number of semester hours completed for the first degree. Twenty-four semester hours must be completed in residence at Western Kentucky University, and at least 15 semester hours be used to complete or extend major and/or minor requirements.

Application for a Degree—All candidates for an undergraduate degree are expected to make formal application at least one semester in advance of the commencement exercises at which the degree is to be conferred. The application for degree is available in the Office of the Registrar.

Exceptions to Degree Requirements and Substitution of Courses—No substitution for requirements prescribed by the Council on Higher Education may be made. Substitutions for institutional and departmental requirements may be made under certain conditions when recommended by the department head concerned and approved by the Center for Academic Advisement, Career Planning and Placement. Appeals regarding degree requirements may be submitted to the Office of the Registrar for consideration by the Committee on Credits and Graduation.

Independent Study Courses—Up to 32 of the hours required for the degree and one-half of the hours required in a major, minor, or area of concentration may be earned through correspondence. A maximum of 12 semester hours during a calendar year may be earned through correspondence study.

Credit earned by independent study is recorded at the time of the completion of the final examination. Five weeks is the minimum time in which a student may complete one three-hour course. Students engaged in residence study should contact the Office of the Registrar for approval to enroll in independent study courses by correspondence.

Each student desiring to earn credit by correspondence must assume full responsibility for registering for proper courses and should check carefully with the Center for Academic Advisement, Career Planning and Placement to determine that these courses will fulfill the requirements for the degree or certificate.

The University desires that every student experience considerable freedom in academic pursuits. Academic freedom, however, is not irresponsibility—it is the opportunity to pursue truth. Regulations concerning dishonesty, falsification of records and other regulations pertaining to conduct are stated in the student handbook, **Hill Topics**. A student who knowingly provides the University with false information or falsifies any records will be subject to dismissal by the University.

Grading and the Quality Point System—The letters, A, B, C, D, F, X, W, WP, WF, AU, NR, and NG are used by the University to indicate the student's academic proficiency. These letters have the following significance:

A—Excellent, valued at four quality points per semester hour.
B—Good, valued at three quality points per semester hour.
C—Average, valued at two quality points per semester hour.
D—Below average, unsatisfactory, valued at one quality point per semester hour. (A "D" gives credit toward a degree. The student's overall grade point average, however, must be a 2.0 or better to meet the requirements for graduation.)
F—Failure, valued at no semester hours earned and no quality points.
X—Incomplete. (See below for additional information)
W—Withdrew.
WP—Withdrew passing.
WF—Withdrew failing. (See below for additional information)
NR—No report (A grade was not submitted by faculty member).
NG—No grade. (A grade is not appropriate to the course).

Credit for a course in which a grade of F has been made can only be earned by repeating the course in residence at Western unless prior approval is given by the Registrar.

A grade of X (incomplete) is given only when a relatively small amount of work is not completed because of illness or other reason satisfactory to the instructor. A grade of X received by an undergraduate student will automatically become an F unless removed within twelve (12) weeks of the next full term (summer school excluded). An incomplete must be removed within this twelve-week period regardless of whether the student is registered for additional work in the next term. A grade of X received by a graduate student, with the exception of thesis courses, will automatically become an F unless removed within twelve (12) months from the completion of the term in which the X was received. A student should work with the instructor who assigned the incomplete on an independent basis in order to complete the necessary assignments. A grade of incomplete is not used under any circumstances as a substitute for F, WP or WF. A grade of WF is calculated in the grade point average and is treated in the same manner as a grade of F.

Grade Reports

Notice is sent to the student's local address at the mid-point of a regular semester, excluding summer term, if the student is making unsatisfactory progress in a course. Final grades are sent to the student's permanent address at the end of each semester or term. Other reports are not sent unless the student is on academic probation or by request.

Auditing of Courses—An auditor is one who enrolls and participates in a course without expecting to receive academic credit. The same registration procedure is followed and the same fees charged as for courses taken for credit. An audited course is not applicable to any degree or certificate program.

Regular class attendance is expected of an auditor. Other course requirements, which may be obtained in writing from the instructor, will vary depending on the nature of the course. Students interested in auditing a course should secure permission from the instructor and discuss course requirements prior to enrolling. Failure to meet course requirements may result in the auditor being withdrawn from the course at the request of the instructor. A successful audit will be recorded on the transcript with the designation "AU."

Any change from audit to credit must be done by the last day to add a class. Changes from credit to audit must be done by the last day to drop a class with a grade of "W." Refunds for withdrawals from audited courses will be prorated on the same basis as refunds for withdrawals from courses taken for credit.

Recording of Grades—Grades are recorded in the Office of the Registrar as reported by the faculty at the end of each term. No grade filed in that office may be changed except on a written statement from the instructor certifying that an error has been made. All conditions must be removed before the student will be recommended for any certificate or degree. No condition may be removed by correspondence study without the approval of the head of the department concerned. A failing grade may not be removed by correspondence study.

Computation of Point Standing—The grade point average is defined as the ratio of the total number of quality points to the total number of semester hours attempted. An undergraduate student is permitted to repeat a maximum of 24 hours or 8 courses, whichever comes first, in which a grade of D, F or WF is earned. Credit

for a course in which a grade of F has been received can only be earned by repeating the course in residence unless prior approval is given by the Registrar. A failing grade may not be removed by correspondence study. If a course is repeated, only the second grade will be counted in computing the grade point average; if the course is repeated a third time, both the second and the third grades will be used in computing the grade point average. A student may attempt a single course no more than three times.

The Committee on Credits and Graduation has the responsibility for hearing appeals from students regarding the application of this regulation.

An appeal for special permission to repeat a course in the major, minor or area of concentration beyond the third attempt will be considered only upon the recommendation of the Head of the Department involved and then only if special consideration is needed to raise the average in that subject to the minimum required.

Students seeking special consideration in the general education requirements and in free electives must first consult with the Registrar of the University. If after this conference an appeal is deemed appropriate, the Committee on Credits and Graduation will consider the student's request.

Change of Major and/or Faculty Advisor—An undergraduate student who desires a change of major and/or faculty advisor should report to the Center for Academic Advisement, Career Planning and Placement, second floor, Wetherby Administration Building for instructions. Staff personnel in the office will explain the procedures involved in making the appropriate change.

Class Attendance—Registration in a course obligates the student to be regular and punctual in class attendance.

At the first class meeting, students should make certain that their name is on the class roll. If an error has been made in registration, it is the student's responsibility to see that the error is corrected in the Registrar's Office. It is the individual instructor's responsibility to inform students at the beginning of the semester of the guidelines for implementing the attendance policy.

An instructor who believes that excessive absenteeism is contributing to the poor academic achievement of an undergraduate student should either counsel with the student or request that the Center for Academic Advisement, Career Planning and Placement arrange a counseling session with the student. After such counseling, continued excessive absenteeism and poor academic achievement may result in the student's dismissal from the class with a failing grade, if the instructor so requests.

When a student is absent from class because of illness, death in the family, or other justifiable reasons, it is the student's responsibility to consult the instructor at the earliest possible time for make-up work. When students present valid reasons for absences, the instructor will assist students in completing work missed or, in case of extended absences, will consult the Center for Academic Advisement, Career Planning and Placement for appropriate action.

Academic Probation—To be eligible for registering continuously without conditions, a student must maintain the following scholastic standards:

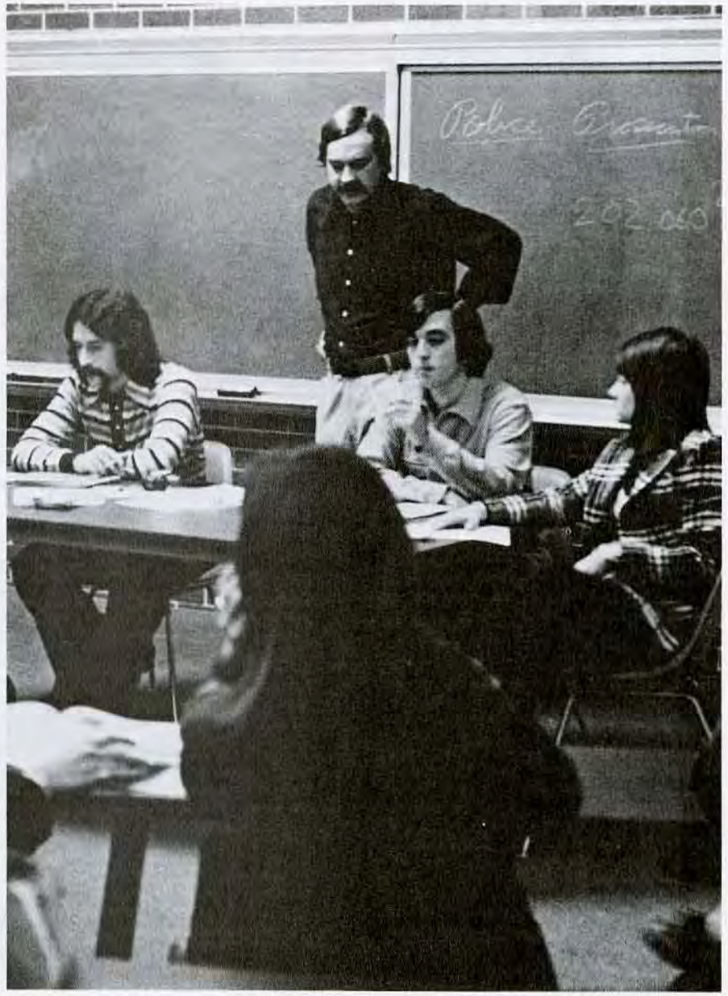
A. A 1.7 cumulative grade point average if the student has 17 or less semester hours attempted.
B. A 1.8 cumulative grade point average if the student has 18 or more but less than 34 semester hours attempted.
C. A 1.9 cumulative grade point average if the student has 34 or more but less than 51 semester hours attempted.
D. A 2.0 cumulative grade point average if the student has 51 or more semester hours attempted.

Students failing to meet the scholastic standards above will automatically be placed on academic probation. The Registrar will provide each student with a semester grade report which will reflect the semester and cumulative grade point averages. Therefore, the responsibility to determine the accurate academic status of each student rests with that student. A student on academic probation will be permitted to continue in school on a semester-by-semester probationary status as long as a 2.0 ("C" average) is maintained for each semester of full-time work and/or acceptable progress is made toward being removed from probation.

NOTE: Students who have cumulative grade point averages below 2.0 ("C" average) at any time but above the academic probation scale outlined above should be aware that their performance does not meet the minimum requirement for graduation. Therefore, the University views such a grade point average as marginal and encourages the student to raise the average as rapidly as possible.

Academic Dismissal—Students who register on academic probation and either fail to remove themselves from probation or fail to earn a "C" average for the semester shall be subject to dismissal by the University Academic Probation Committee. The Director of the Center for Academic Advisement, Career Planning and Placement is responsible for administering the academic dismissal policies.

Appeal Procedure—The Executive Committee of the University Academic Probation Committee considers all student appeals related to academic probation and dismissal policies. The Executive Committee will consider a student appeal after a written petition has been submitted by the student to the Director of the Center for Academic Advisement, Career Planning and Placement and a conference has been held with the student and parents when possible. If the Executive Committee approves such an appeal, the student will be permitted to register for an additional



semester on academic probation with the conditions being determined by the Executive Committee at the time of approval. Detailed operational procedures followed by the University Academic Probation Committee may be obtained from the Director of the Center for Academic Advisement, Career Planning and Placement.

Students who have been out of the University for a period of time and who wish to re-enroll at Western should file an application for readmission in the Office of Admissions prior to the deadline for submitting applications. This applies to students who have been dismissed for academic deficiencies or those who withdrew voluntarily.

Withdrawal From the University—For various reasons it is occasionally necessary for a student to withdraw from the University. In such cases the student should report to the Office of the Registrar to initiate the withdrawal procedures. Students leaving the institution without an official withdrawal will receive failing grades in all courses in which enrolled and endanger their future status in the institution. The date of the official withdrawal is the date the Registrar's Office is notified of the withdrawal. Students wishing to return to Western at a later date must submit an application for readmission prior to the deadline for submitting applications.

Division of the School Year—The academic year of Western Kentucky University is divided into two semesters consisting of sixteen weeks of classes exclusive of registration periods and a summer session consisting of two terms of five and one-half weeks each. The opening and closing dates are given in the University Calendar, which is published yearly.

Unit of University Credit—The unit of credit is a semester hour, consisting of one 60-minute period of recitation or two 60-minute periods of laboratory each week for a semester.

Numbering of Courses—Courses numbered 0-49 are reserved for courses carrying continuing education unit credit. Courses numbered 50-99 are special purpose courses which must be taken in addition to the total hours required for any degree or certificate program, but in all other respects constitute a valid part of a student's record. Courses numbered from 100-299 are primarily for freshmen and sophomores and such courses generally contain introductory, elementary, or basic level content material. Courses numbered from 300-499 are courses in which the majority of the students enrolled are juniors and seniors and such courses contain advanced undergraduate level content material. Courses numbered 400 and above may be taken by graduate students when a "G" designation follows a 400 course number. Courses numbered from 500-699 are open to graduate students only.

Classification of Students—Beginning students are classified as freshmen; students with a minimum of 30 semester hours, as sophomores; 60 hours, as juniors; and 90 hours, as seniors.

Student Load—The standard load for undergraduate students is 16-19 hours per semester. To be considered a full-time undergraduate student, one must carry a minimum of 12 hours each semester. Students with an academic average of 3.3 or above will be permitted to enroll for a maximum of 21 semester hours. Any exceptions to this rule will be considered by the Committee on Credits and Graduation.

University Schedule Changes—The institution reserves the privilege at all times of cancelling any course for which the enrollment is not sufficient to justify its continuation and to make any other adjustments in the schedule that seem necessary.

Student Schedule Changes—Changes in schedules may be made only within the first six class days of a semester or the first three days of a bi-term if such changes involve entering other classes. Courses which do not meet at least twice during the first six class days may be added up through, but not past, the day of the third class meeting.

During a semester, a student may drop a course with a grade of W, WP, WF or F under the following conditions:

A. A student is permitted to withdraw from any course with a grade of W through the 6th week of class;
B. From the 7th week of class through the 8th week of class, a student shall receive a grade of WP or WF from the instructor;
C. After the 8th week of class, any student dropping a course will receive an automatic F unless there are extenuating circumstances.

During a bi-term a student may drop a course with a grade of W, WP, WF or F under the following conditions:

A. A student is permitted to withdraw from any course with a grade of W through the 3rd week of class;
B. During the 4th week of class, a student shall receive a grade of WP or WF from the instructor.
C. After the 4th week of class, any student dropping a course will receive an automatic F unless there are extenuating circumstances.

Students should check the class schedule bulletin each semester for specific dates.

Transcripts—Transcripts will be released at the written request of the student and in conformity with existing state and federal statutes pertaining to the release of student academic records.

The official academic record is the property of the University. Consequently the University reserves the right to withhold the release of a transcript of that record if the student has an obligation to the University.

CREDIT BY EXAM

Credit may be earned at Western through the following examination programs: the Advanced Placement Program (APP), the American College Testing Program (ACT), the College Level Examination Program (CLEP), and departmental examinations developed by WKU departmental faculty committees. The credit hours earned through these examinations will count toward graduation, but will not be used to compute grade point averages since a letter grade will not be given.

Although students may receive credit hours through any of these four programs, duplicate credit may not be earned. For example, a student who earns credit hours for English 101 on the APP may not receive additional credit for English 101 on the ACT exam, on a departmental exam, or on the CLEP general or subject exams.

New students should take CLEP and ACT examinations at least four months before entering college. High school seniors should take CLEP and ACT examinations no later than April so that the results may be available for use in selecting courses during the summer orientation and registration program.

Advanced Placement Program (APP)

(Normally taken before graduation from high school.)

Students may earn college credit through the Advanced Placement Program of the College Entrance Examination Board upon completion of college level courses taken while in high school. A score of "3" or higher will earn three semester hours of credit in art, American history, biology, calculus, chemistry, English, European history, French, Latin, music, physics or Spanish. Further details may be obtained from the high school counselor. The APP score should be sent to the Office of Admissions at the time the application for admission is submitted or as soon as possible thereafter.

American College Testing Program (ACT)

(Normally taken before admission to college.)

A student scoring 25 or above on the English section of the ACT will be awarded three credit hours and permitted to register for the second course of freshman English. The ACT score should be sent to the Office of Admissions as a part of the admissions process. The Director of Admissions will notify applicants who qualify for academic credit on the basis of the ACT scores.

College Level Examination Program (CLEP)

The CLEP examinations may be taken during the third week of each month at any national testing center, including the testing center at Western. A CLEP "Bulletin of Information for Candidates" may be obtained by contacting the Counseling Services Center, Western Kentucky University, Bowling Green, Kentucky 42101, (502) 745-3159 or by writing: CLEP, Box 1821, Princeton, New Jersey 08540.

Students may register for general examinations at Western by contacting the Counseling Services Center no later than the Friday prior to the examination on Monday. However, students must register for the subject examinations three weeks in advance of the examination date. The fee is $20 for each examination. (These fees are subject to change by Educational Testing Service.)

Students applying to Western should have their scores sent to the Office of Admissions. Students currently enrolled at Western should request that their scores be sent to the Office of the Registrar. The appropriate office will then notify applicants who qualify for academic credit.

Policies Related to the CLEP Examinations:

A. A student who has completed a course at Western or at another accredited college or university may not receive credit for a CLEP examination of similar content.

B. A student may not take a CLEP examination for credit after having taken a college course at a higher level in the same department (subject matter area).

C. A student who has established credit through a CLEP general examination may not earn additional credit by taking a subject examination or vice versa, if there is a substantial overlap of the material covered by the two exams.

D. A student may establish credit in all courses or areas in which that student is able to demonstrate a proficiency, provided that individual meets the University's residence requirements for graduation (32 semester hours).

E. A student who fails to earn credit on a CLEP examination may not repeat the same examination within one calendar year.

CLEP General Examinations should be taken prior to the student's initial enrollment in college or at the first testing date after registration in the freshman year. Students enrolling in college for the first time in the fall semester may not receive credit from a CLEP general examination taken after September 30. Students enrolling for the first time in the spring semester may not receive credit from a CLEP general examination taken after January 30.

Students scoring less than 500, but scoring 50 or higher on a sub-test, will receive 3 semester hours credit. Credit earned from the general examinations may be used in fulfilling Western's General Education Requirements in the categories indicated in the right column below.

Examination	Minimum Score	Credit Hours	General Education Category*
English Composition**	500	6	A—I, F
Humanities	500	6	B
Literature	50	3	B—I
Fine Arts	50	3	B—II
Social Science—History	500	6	C
Social Science	50	3	C
History	50	3	C
Natural Sciences	500	6	D—I
Biological	50	3	D—I
Physical	50	3	D—I
Mathematics	500	6	D—II
Skills	50	3	D—II
Content	50	3	D—II

*For detailed information regarding Western's General Education Requirements, see either the Categorical Guidelines Publication from the Center for Academic Advisement, Career Planning and Placement or the University Catalog.

**3 semester hours will be applied to Category A-I, and 3 semester hours will be applied toward Category F. The minimum score of 500 for the new English Composition examination was in the process of being changed at the time this catalog was being printed.

CLEP Subject Examinations are normally taken after admission.

Western does not require completion of the essay section of the CLEP subject examinations.

Examination	Minimum Score	Credit Hours	Equivalent WKU Course
American Government	50	3	Gov't. 110
American History			
Subtest 1	49	3	Hist. 140
Subtest 2	49	3	Hist. 141
American Literature	50	3	Eng. 390
Biology	50	3	Biol. 148
College Algebra	50	3	Math 100
College Algebra—Trigonometry	49	3	Math 118
College French	40	3	Fr. 120
(Levels 1 and 2)	45	6	Fr. 120, 121
	50	9	Fr. 120, 121 & 220
	55	12	Fr. 120, 121, 220 & 221
College German	41	3	Ger. 130
(Levels 1 and 2)	44	6	Ger. 130, 131
	52	9	Ger. 130, 131 & 230
	54	12	Ger. 130, 131, 230 & 231
College Spanish	42	3	Span. 170
(Levels 1 and 2)	46	6	Span. 170, 171
	49	9	Span. 170, 171, & 270
	55	12	Span. 170, 171, 270 & 271
Computers and Data Processing	47	3	INFS 142
Elementary Computer Programming—FORTRAN IV	51	3	INFS 245
Freshman English	50	3	Eng. 101
English Literature	49	3	Eng. 380
General Chemistry	48	6	Chem. 120 & 122
General Psychology	50	3	Psy. 100
History of American Education	50	3	Educ. 496
Introductory Accounting	53	6	Acct. 200 & 201
Introductory Business Law	51	3	Legal Area 301
Introductory Calculus	50	4	Math 126
Introductory Micro-Macro Economics	50	6	Econ. 202 & 203
Introductory Micro Economics	50	3	Econ. 202
Introductory Macro Economics	50	3	Econ. 203
Introductory Sociology	51	3	Soc. 110
Money and Banking	49	3	Econ. 300
Trigonometry	49	3	Math 105
Western Civilization			
Subtest 1	49	3	Hist. 119
Subtest 2	49	3	Hist. 120

Departmental Examinations

Students enrolled at Western may also receive credit on the basis of departmental examinations. A student may take a departmental examination in any course listed as satisfying a requirement in any of the six categories of general education.

A department may adopt either a standardized examination available from outside the University or develop an appropriate proficiency examination within the department by means of a faculty committee. Departmental proficiency examinations may be written, oral or both.

To be eligible to take a departmental proficiency examination, a student must be fully matriculated, in good standing, and regularly enrolled at Western. Credits earned in this manner will be recorded on the student's official transcript but will not be considered as a part of the normal semester load in the term in which the examination is taken. A student may not take a departmental proficiency examination in a course which has been previously taken or is being taken at Western or at another accredited institution.

A registered student desiring to take a departmental examination must complete an appropriate request form in the Office of the Registrar. A $10 fee must be paid at the time the form is submitted. The form must be submitted to the Registrar prior to the end of the third week of classes in either the fall or spring semesters. The Registrar will notify the appropriate department of the student's request. The department will administer the proficiency examination during the seventh week of classes. The student must obtain the specific time and place for testing from the department head.

After the testing has been completed, the department head will notify the Registrar in writing as to whether or not the student demonstrated an acceptable proficiency. If the department recommends that credit be granted, the semester hours earned will be shown on the official transcript. However, the credit will not be used in computing the grade point average since letter grades will not be assigned.

For additional information regarding proficiency testing, write:

Office of Admissions
Western Kentucky University
Bowling Green, Kentucky 42101

STUDENT COMPLAINT PROCEDURE

The student complaint procedure for resolving a complaint concerning a faculty member is outlined below in four steps.

Step 1 (Faculty Member)

The first step is for the student to discuss the complaint with the faculty member involved. If the faculty member is no longer employed by the University, the student should go directly to the department head who will contact and represent the former faculty member. If the complaint involves a grade, the student must take the complaint to the faculty member within the first two weeks of the first regular semester (fall; spring) following the assignment of the grade. It is hoped that the complaint may be satisfactorily dealt with at this level.

Step 2 (Department Level)

If the student and the faculty member are unable to resolve the complaint, the student may take the complaint to the faculty member's department head. It is the responsibility of the department head to arrange for a conference where the student, faculty member and the department head will be present for discussion. Neither the faculty member nor the student will be allowed representation at the conference. The department head shall hear both sides of the complaint and shall attempt to mediate a settlement. The department head shall keep a written record of the proceedings, including the recommended solution. The department head's recommended solution is to be considered by both the faculty member and the student as a recommendation and not as a decision that is binding.

Step 3 (College Level)

Should the student be unable to receive the satisfaction desired at the departmental level, the complaint may be taken to the college level. Written notification of the complaint must be submitted to the college dean or his designated representative within two weeks after the conference with the department head (Step 2). Upon receipt of the notification, the college dean or his representative shall provide the student a copy of the procedural guidelines to be followed by the College Complaint Committee. The procedural guidelines shall provide for a conference with both the student and the faculty member present for joint discussion of the complaint with the committee.

The College Complaint Committee will be responsible for scheduling the conference within two weeks following the submission of a written complaint to the chairman of the College Complaint Committee including as much detail as the student cares to include. The written complaint should clearly state what is considered to be unreasonable and/or unfair practices or procedures. Neither the faculty member nor the student will be allowed representation at the conference. The College Complaint Committee shall hear both sides of the complaint and render a decision. The decision shall be sent in writing to the Vice-President for Academic Affairs, with a copy being sent as a matter of record to the student, faculty member, faculty member's department head and the faculty member's college dean. The Office of the Vice-President for Academic Affairs shall be responsible for enforcing the decision of the college committee. The Office of the Vice-President for Academic Affairs shall not enforce the decision until two weeks after the decision is made by the college committee. The purpose of the two week delay is to provide either the student or the faculty member an opportunity to submit a formal written notice of appeal to the University Complaint Committee.

Step 4 (University Level)

Should the student or the faculty member desire to appeal the decision of the College Complaint Committee, a formal written notice of appeal may be submitted to the University Complaint Committee chairman, with a copy to the Vice-President for Academic Affairs, within two weeks of the decision of the College Complaint Committee. The chairman of the University Complaint Committee will provide the student and the faculty member involved with a copy of the University Complaint Committee's Procedural Guidelines. The University Complaint Committee will secure copies of the written proceedings from the department head and the College Complaint Committee. The University Complaint Committee will schedule a conference where the faculty member and the student jointly discuss the issue. Neither the faculty member nor the student will be allowed representation at the conference. The committee's decision will be sent to the Vice-President for Academic Affairs, with a copy being sent as a matter of record to the student, faculty member, faculty member's department head and the faculty member's college dean. The Office of the Vice-President for Academic Affairs will see that decisions of the University Complaint Committee are carried out. The University Complaint Committee's decision is final.

GENERAL EDUCATION REQUIREMENTS

All students following any of the four-year undergraduate degree programs must fulfill certain general education requirements. Students are cautioned to note any special requirements governing the particular program they choose to follow. The general education requirements and the courses which will fulfill these requirements are as follows. Students should refer to course descriptions or consult the department head for possible prerequisites for general education courses.

Category A—ORGANIZATION AND COMMUNICATION OF IDEAS ..... 9-12 hrs.

In fulfilling the requirements in this category the student must take six hours of English composition and three to six hours of electives. A student electing to take nine hours in this category must take twelve hours from CATEGORY B. A student who does not take foreign languages in CATEGORY A, must take twelve hours in CATEGORY B. A student taking twelve hours in this category must have courses in at least two fields.

I. English Composition ..... 6 hrs.
   - English 101, 102
   - CLEP General Exam—English Composition (3 hrs.)*

*When 3 hours of CLEP general examination credit is used in Category AI, additional credit in English 101 may not be used in fulfilling the requirement.

II. Electives ..... 3-6 hrs.
   - Computer Science 240
   - English 104, 397
   - French 120, 121, 220, 221
   - General Modern Languages 190
   - German 130, 131, 230, 231
   - Greek 384, 385
   - Hebrew 382, 383
   - Italian 180, 181
   - Journalism 202
   - Latin 150, 151, 250, 251, 397
   - Philosophy 110, 115
   - Portuguese 140
   - Russian 160, 161, 260, 261
   - Spanish 170, 171, 270, 271
   - Speech 145, 149, 161, 345

Category B—HUMANITIES ..... 9-12 hrs.

In fulfilling requirements in this category a student must take three to six hours of literature and six to nine hours of electives. At least two fields must be represented in the electives courses. A student electing to take nine hours in this category must complete twelve hours in CATEGORY A. If a student does not take foreign languages in fulfilling requirements of CATEGORY A, then the student must take twelve hours in this category:

I. Literature ..... 3-6 hrs.
   - English 183, 285, 380, 390
   - French 229, 324
   - German 239, 334
   - Humanities 172, 182, 192
   - Russian 464
   - Spanish 279, 374
   - CLEP General Exam—Humanities (Literature, 3 hrs.)*

*When 3 hours of CLEP general examination credit is used in Category BI, additional credit may be earned in any of the courses listed in Category B1.

II. Electives ..... 6-9 hrs.
   (At least two fields must be represented)
   - Art 100, 105, 304, 305, 306
   - French 323
   - German 333
   - Spanish 373
   - History 305, 306, 417, 418
   - Humanities 170, 171, 173, 174, 180, 181, 183, 184, 190, 191, 193, 194
   - Music 120, 225, 326, 327, 378H
   - Philosophy 120, 130, 320
   - Religion 100, 101, 102, 325
   - Theatre 151, 354, 355
   - CLEP General Exam—Humanities (Fine Arts, 3 hrs.)*

*When 3 hours of CLEP general examination credit is used in Category BII, additional credit may be earned in any of the courses in Category BII.

Category C—SOCIAL AND BEHAVIORAL STUDIES ... 15 hrs.††

In fulfilling requirements of this category a student must take courses representing at least four fields, including History 119 or 120.†† Students following the Teacher Education Curriculum should note that Home Economics 352, Intercultural Studies 300, Folk Studies 371, and Psychology courses will not count toward fulfillment of their social science requirements but will count as general electives in Category F. The following courses may be taken to fulfill requirements in this category:

- Agriculture 108
- Anthropology 150, 151
- Economics 104, 105, 150, 202, 203
- Folk Studies 371
- Geography 101, 350, 360, 471, 480
- Government 100, 110, 252
- History 119, 120, 140, 141, 299, 334, 335, 360, 461
- Home Economics 352
- Intercultural Studies 300
- Psychology 100, 199, 250, 260
- Social Work 215
- Sociology 110, 250, 295, 310
- CLEP General Exam—Social Science—History (6 hrs.)*

*When either 3 or 6 hours of CLEP general examination credit is used in Category C, additional credit may be earned by taking any of the courses listed in Category C.

Category D—NATURAL SCIENCES-MATHEMATICS ..... 12 hrs.

In fulfilling requirements under this category a student must take at least three hours in mathematics and at least two science fields must be represented. Students following the Teacher Education Curriculum shoud also note that state certification standards require at least three hours in a biological science and at least three hours in a physical science. Agriculture 101 will not count as a science requirement for students being certified to teach.

The following courses may be taken to fulfill requirements in this category:

I. Science ..... 9 hrs.
   - Agriculture 101
   - Astronomy 104, 106, 214
   - Biology 131, 148-9, 156, 158-9, 300, 301, 302, 305-6, 307-8, 318-19
   - Chemistry 101-2, 105-6, 107-8, 109, 120-1, 122-3, 301
   - Geography 100, 105-6, 107-8, 121
   - Geology 102, 111-13, 112-14
   - Physics 100, 101, 102, 103, 105, 109, 130, 201, 202, 205, 206, 231, 232
   - CLEP General Exam—Natural Science (Biological, 3 hrs.)*
   - CLEP General Exam—Natural Science (Physical, 3 hrs.)*

*When 3 hours of CLEP general examination credit (Biological) is used in Category DI, additional credit in Biology 156 may not be used in fulfilling the requirement. When 3 hours of CLEP general examination credit (Physical) is used in Category DI, additional credit may be earned by taking any of the courses listed in Category DI.

II. Mathematics ..... 3 hrs.
   - Math 109, 115, 116, 118, 120, 126, 203
   - CLEP General Exam—Mathematics (Content or Skills, 3 hrs.)*

*When 6 hours of CLEP general examination credit is earned in mathematics, 3 hours may be used in fulfilling the requirement in DII and the additional 3 hours may be used in Category F or as free electives. Additional credit in Mathematics 109 may not be used in fulfilling general education requirements.

Category E—PHYSICAL DEVELOPMENT ..... 2-3 hrs.

A student may choose from the fol-

lowing courses in fulfilling requirements under this category:
Health 100, 171
Home Economics 167
Military Science 100, 101
Physical Education 100, 101, 102, 103, 104
(A student may fulfill requirements of this category by completing military service.)
NOTE: All students seeking teacher certification must take either Health 100 or Physical Education 100.

Category F—GENERAL ELECTIVES ..... 3 hrs.
In fulfilling requirements of this category, a student may select from any of the courses listed below or from those listed in any of the preceding categories.
Broadcast Communication 111
Engineering Technology 280
English 381, 382, 391, 392, 393, 396
Folk Studies 276, 376, 393
Health 165, 270
History 259, 324, 348, 438
Home Economics 120, 140
Honors 100H, 101H
Industrial Education 101
Latin 396
Library Science 101†
Office Administration 361
Philosophy 210, 330
Religion 300, 305, 320, 321
Sociology 260
Speech 249
CLEP General Exam—Mathematics (Content or Skills, 3 hrs.)*
CLEP General Exam—English**
*When 6 hours of CLEP general examination credit is earned in mathematics, 3 hours may be used in fulfilling the requirement in DII and the additional 3 hours may be used in Category F or as a free elective. Additional credit in Mathematics 109 may not be used in fulfilling general education requirements.
**When 6 hours of CLEP General Examination credit are earned in English, 3 hours may be used in fulfilling the requirement in A-I and the additional 3 hours may be used in Category F or as a free elective. Effective for Fall of 1978.
†See statement G below.

Total minimum general education requirements ..... 53-54 hrs.

NOTE: Additional courses which meet general education requirements are being added from time to time. Students having questions about courses other than those listed in this catalog should consult the Center for Academic Advisement, Career Planning and Placement.

The following general regulations govern the application of the above requirements:
A. No more than twelve hours may be earned in any one subject for use in fulfilling the general education requirements.
B. No course may be applied to more than one category outlined above.
C. Up to twelve semester hours of the general education requirements may be taken during the student's senior year.
D. Advanced placement may be achieved in any general education category provided the student demonstrates proficiency to the satisfaction of the department involved. The student must, however, satisfy the total semester hours requirement for general education.
E. Stipulation of courses or specific requirements in any category shall be avoided by curriculum committees except when necessary to satisfy certification or accreditation standards. This principle does not deny the right of a department to specify requirements for its own majors, which may or may not count on general education requirements.
F. The requirements marked with a "††" become effective for all beginning freshmen enrolling in the 1977 fall semester. These requirements become effective for all students with the opening of the 1981 fall semester.
G. Beginning freshmen entering a baccalaureate degree program at Western are required to enroll in Library Science 101 during either the first or second semester of their freshman year.

TEACHER EDUCATION PROGRAMS AND REQUIREMENTS

Students desiring to teach at the elementary, junior high/middle school or secondary level must obtain professional education certification. Western is approved to offer the following programs:
A. Four- and five-year programs for the preparation-certification of elementary school teachers.
B. Four- and five-year programs for the preparation-certification of secondary school teachers, with the following academic specialization.
1. Areas of Concentration:
art, business education, distributive education, English, exceptional children—learning and behavior disorders, exceptional children—trainable mentally handicapped, exceptional children—speech and communication disorders, health occupations, industrial arts, mathematics-physical science, music, science, social studies, vocational agriculture, vocational home economics, vocational industrial and technical education.
2. Majors:
agriculture (non-vocational), biology, chemistry, distributive education, dramatics-speech, earth science, economics, English, French, geography, German, health, health-safety, history, history-political science, industrial arts, journalism, library science, mathematics, physical education, physics, political science, psychology, secretarial practice, sociology, Spanish, speech.
3. Minors:
accounting, agriculture (non-vocational), art, biology, chemistry, dramatics, earth science, economics, English, folklore, French, geography, geology, general business, German, health, history, home economics (non-vocational), journalism, Latin, library science, mathematics, music, physics, political science, psychology, Russian, secretarial practice, sociology, Spanish, speech.
C. Five-year programs of preparation-certification for other school positions as follows:
1. Program for school guidance counselors leading to certificate endorsement as Provisional Certification for Guidance Counselor
2. The Fifth Year Program for Classroom Teachers
3. Program in reading specialization leading to the certificate endorsement for reading specialist
4. Program for school librarians leading to the Standard Certificate for School Librarianship
5. Program in special education leading to the Standard Certificate for Special Education
6. Program for the Standard Certificate for School Media Specialist
D. Six-year programs of preparation-certification as follows:
1. Program for school guidance counselor leading to the Standard Certificate for Guidance Counselor
2. Programs for elementary and secondary school teachers, guidance counselors, and school administrators leading to a Rank 1 classification under the Foundation Law
3. Programs for elementary school principal, secondary school principal, supervisor of instruction, director of pupil personnel, and school superintendent leading to the Professional Certificate for School Administration and Supervision
E. Other programs as follows:
1. Program for school psychometrists leading to the Certificate for Specialized School Services endorsed for School Psychometrist
2. Two-year and four-year college program for the preparation of teachers of vocational industrial and technical education
3. Program in school social work leading to the Provisional Certificate for School Social Worker
4. Four- and five-year programs for school business administration leading to the Provisional and Standard Certificates for School Business Administrator
5. Certificate endorsement program for driver education
6. The program for the Certificate for Administration, Supervision, and Coordination of Vocational Education
7. Program of preparation-certification for kindergarten teachers
8. Program for the endorsement of high school certificate for classroom teaching at the elementary level
9. Program for the endorsement of high school certificate for elementary physical education.
F. 1. Four-year program for the Provisional Middle School-Junior High School Certificate (preparation-certification of junior high school teachers)
2. Four-year program for the Provisional Certificate for School Media Librarian

Special requirements for certification are listed below:

A. **Elementary Education**
Introduction to Education ..... 3 hrs.
Human Growth & Development ..... 3 hrs.
Materials and Methods in Social Studies ..... 3 hrs.
Teaching of Reading ..... 3 hrs.
Teaching Mathematics in Elementary Schools ..... 3 hrs.
Teaching Science in Elementary Schools ..... 3 hrs.
Evaluation of Learning .... 3 hrs.
Reading Skills—
Primary ..... 3 hrs.
or
Reading Skills—
Intermediate ..... 3 hrs.
Pre-Student Teaching Seminar ..... 2 hrs.
Student Teaching ..... 8 hrs.
Total ..... 34 hrs.

B. **Junior High-Middle School**
Introduction to Education ..... 3 hrs.
Human Growth & Development ..... 3 hrs.
Tests and Measurements ..... 3 hrs.
Psychology of the Early Adolescent ..... 3 hrs.
Reading Instruction in Jr. and Sr. High Schools ..... 3 hrs.
Jr. High School Methods and Materials (or The Jr. High School and an appropriate secondary methods course) ..... 3 hrs.
Student Teaching ..... 8 hrs.
Total ..... 26 hrs.

C. **Secondary Education**
Introduction to Education ..... 3 hrs.
Human Growth & Development ..... 3 hrs.
Materials and Methods .... 3 hrs.
Tests and Measurements ..... 3 hrs.
Student Teaching ..... 8 hrs.
Total ..... 20 hrs.

ACADEMIC DIVISIONS, DEPARTMENTS AND PROGRAMS

College of Applied Arts and Health

Dr. William R. Hourigan, Dean
Academic Complex 207

Established on July 1, 1969, by the Board of Regents, the College of Applied Arts and Health includes a variety of disciplines which convert the findings of science and technology into principles of behavior, resulting in a high quality of living for man and society.

The Applied Arts division of the College consists of the departments of Home Economics and Family Living, Library Science and Instructional Media and Military Science. The Health division is comprised of Dental Hygiene, Health and Safety, Allied Health and Nursing. The dean of the college has the coordinating responsibility for other health curricula throughout the university.

Baccalaureate and associate degrees and requirements are shown in the departments of the college.

Graduate programs offered by departments in this college are listed under the Graduate College.

More detailed information about programs offered may be obtained by writing to the appropriate department or to the Dean of the College of Applied Arts and Health.

DEPARTMENT OF DENTAL HYGIENE

ACADEMIC COMPLEX, ROOM 215

Professor A. Fogle Godby, Head

Professor: W. Neel
Assistant Professor: S. Cox, R. Meador
Instructor: K. Williams

The Dental Hygiene curriculum is structured to meet the requirements for accreditation by the Council on Dental Education of the American Dental Association.

The educational experience offered is both general and specialized and prepares the graduate hygienist to effectively carry out his or her duties as prescribed by licensure.

Career opportunities in Dental Hygiene at this time are "moderately good and are rewarding."

Although it is possible to enter Dental Hygiene training upon completion of high school studies, most beginning Dental Hygiene students will have successfully completed one or more years of college training.

Enrollment in Dental Hygiene courses is closed to all students except those who have been accepted for training as dental hygienists.

Students who are interested in enrolling in the Dental Hygiene Program must first apply and be admitted to Western Kentucky University. Following their acceptance as a Western Kentucky University student, they must apply to the Department of Dental Hygiene for admission to the Dental Hygiene Program. Applicants, ideally, should have some type of clinical background in either dentistry or medicine. Students in the program must maintain an average of C or better in all Clinical Dental Hygiene courses. Additionally, in accordance with University policy, an overall grade point average of 2.0 or greater must be attained upon completing the required curriculum.

ASSOCIATE DEGREE IN DENTAL HYGIENE

The associate degree in dental hygiene (reference number 226) requires a minimum of 70 semester hours and leads to an Associate of Science degree. Requirements are outlined below:

First semester students take CHEM 109, BIOL 131, DH 111, 112, 201 and ENG 101.

Second semester students take DH 121, 130, 203, 204 and PSY 100.

Summer school students take BIOL 207 and ENG 102.

Third semester students take SP COM 145, HE FL 167, DH 202, 207, 210 and 211.

Fourth semester students take SOC 110, DH 206, 221, 223, 224 and 226.

MINOR IN DENTAL HYGIENE

The minor in dental hygiene (reference number 350) requires a minimum of 35 semester hours. Successful completion of the dental hygiene courses satisfies requirements for a minor when taken in conjunction with a major subject.

COURSES OF INSTRUCTION

111 Pre-Clinical Dental Hygiene. 2 hours.
An orientation into the field of Dentistry. Subject matter includes the history of dentistry and dental hygiene, professional ethics, the practice of dental specialties, the role of the dental hygienist, dental assistant and dental laboratory technician, preventive dentistry and dental terminology. (Fall)

112 Oral Anatomy. 3 hours.
A study of the morphology of the head, neck and oral structures. Emphasis is given to the detailed anatomy of individual teeth. Reproduction of teeth is carried out in the laboratory by drawing, clay molding and wax carving. (Fall)

121 Clinical Dental Hygiene. 4 hours.
Prerequisite: Dental Hygiene 111.
Emphasis is given to the clinical aspects of training. The students practice prophylactics and radiography on manikin heads. In the latter half of the course they provide clinical care to adult patients under close supervision. Lectures concern clinical characteristics of calculus and stains, their formation and removal, terminology, prevention of disease transmission and sterilization procedures. (Spring)

130 Oral Histology and Embryology. 3 hours.
Prerequisite: Dental Hygiene 112.
An introductory study of cells, tissues and organic structures of the human body with emphasis on the tissues of the oral cavity. Histogenesis of the teeth and facial bones are reviewed. Cellular changes associated with eruption and shedding of primary teeth and function of permanent teeth are studied in detail. (Spring)

201 Dental Radiology. 1 hour.
The first of a two-part course in radiography. This course explores dental radiology starting with fundamental physics. Material covered includes intraoral techniques, the darkroom, skull anatomy, diseases of roetgenographic importance and X-ray interpretation. Normal anatomy, patient positioning, radiation hazards and protection are emphasized. (Fall)

202 Dental Radiology. 1 hour.
Prerequisite: Dental Hygiene 201.
A continuation of Dental Radiology 201. More advanced techniques including panoramic radiography, abnormal anatomy and radiographic manifestations of Dental Pathology are taught. (Fall)

204 Periodontics. 2 hours.
A course correlated with Dental Hygiene 211 and stresses clinical appearance of normal and abnormal supporting tissues of the teeth, the etiology of periodontal disease, modes of treatment and prognosis. Examination and charting of periodontal pockets on clinical patients are carried out. (Spring)

206 Principles of Pharmacology. 1 hour.
Prerequisites: Biol. 131, Chem. 109.
A study of actions of drugs on living tissues and the basis upon which drugs are classified for their therapeutic usefulness. Special emphasis is given to those used in

dentistry. Dosages and pharmacological actions are stressed. (Spring)

207 General and Oral Pathology. 3 hours.
The first portion of the course is an abstracted review of General Pathology. Subjects covered include inflammation, neoplasias, bacterial diseases, viral diseases, congenital abnormalities and diseases of the organ systems. The second portion covers diseases and abnormalities of the oral cavity, the adjacent bones and soft tissues. Diseases of the salivary glands, the teeth and their supporting tissues are studied. (Fall)

210 Dental Materials. 2 hours.
Prerequisites: Dental Hygiene 111, 121.
This course concerns the chemistry and physical properties of filling materials, impression materials, waxes, plasters, artificial stone, other dental materials. Their clinical uses are studied. Laboratory procedures dealing with the manipulation of these materials are carried out. (Fall)

211 Clinical Dental Hygiene. 4 hours.
Prerequisite: Dental Hygiene 121.
A laboratory course closely correlated with oral diagnosis and oral pathology. Clinical activities include application of prophylactic technique to adult and pediatric patients. Oral examination and charting, sodium fluoride application. X-ray exposure and development, patient education and sterilization techniques are carried out. (Fall)

212 Dental Health Education. 2 hours.
A study of direct and indirect methods of dental health education. Emphasis on teaching units in public schools in the context of federal, state and local community health problems. Learning to plan, develop and evaluate instructional materials. (Spring)

221 Clinical Dental Hygiene. 4 hours.
Prerequisite: Dental Hygiene 211.
Students are required to perform a specified number of oral prophylaxis, under supervision, on pediatric and adult patients, to administer a given number of topical fluoride treatments, take, process and review dental x-rays and overall accomplish every clinical procedure that a licensed dental hygienist is expected to do. (Spring)

223 Dental Hygiene Literature Review
Seminar. 2 hour.
A course designed to (1) keep the student knowledgeable on current literature that pertains to the field of Dental Hygiene and (2) to teach the student to effectively present a professional subject to peers and to the public. Articles are selected from current dental journals and presented by both faculty and students. (Spring)

224 Practice Management and Ethics. 2 hours.
A course that covers the major aspects of the management of a growing dental practice in today's society including location, equipment, office furnishings, insurance plans, ethics and jurisprudence. (Spring)

226 Dental Assisting. 2 hours.
In this course the student receives instruction in patient handling, professional attitudes, secretarial and receptionist duties and the care and maintenance of equipment. Also taught are the fundamentals of instrument uses and their care, to set up trays for all types of dental procedures, to pour, trim and identify study models and to promote good dental health habits through patient education. (Spring)

DEPARTMENT OF HEALTH AND SAFETY

SCIENCE TECHNOLOGY HALL 412

Professor J. David Dunn, Head

Associate Professors: H. Baughman, R. Baum, D. Carter, B. Goodrow, G. Lohr, G. Niva, J. Price, F. Price, N. Schira
Assistant Professors: R. Biggerstaff, S. Bohnenblust, J. Burt, W. Higgins, H. Leopold, M. Rush
Instructors: B. Edwards, T. McIlwain, B. Smith, B. Steen

The major purpose of health and safety education is to assist the student in comprehending the meaning of health (including mental and physical health), and the relationship of personal behavior to an increased life span and a high quality of living. Thus the study of health and safety education is aimed at providing knowledge and developing attitudes which will enable the individual to make decisions contributing to personal, family and community health.

Students may pursue one of several major, minor or endorsement programs. Specialized programs prepare individuals for careers in education, public health, health care administration, fire technology, safety and driver education and other related areas.

All majors and minors are expected to work closely with their academic advisors in planning their courses of study. Special interests and abilities will be considered in planning the individual course of study.

MAJOR IN COMMUNITY HEALTH—PUBLIC HEALTH

The major in community health—public health (reference number 626) requires a minimum of 37/41 semester hours and leads to a Bachelor of Science degree. Required courses are: Health 260, 381, 383, 384, 442, 461, 481, 483, 484 and 490. Six hours of health electives must be selected with the guidance of a faculty advisor. In addition to meeting the general education requirements of the university, the student majoring in community health must take: Speech 145, Journalish 202, Biology 131, and 307, Chemistry 109, Home Economics and Family Living 167, Health and Safety 171, Psychology 100, and Sociology 110 and 295.

MAJOR IN HEALTH EDUCATION—SCHOOL HEALTH

The major in health education—school health (reference number 689) requires a minimum of 30 semester hours and leads to a Bachelor of Science degree.

An undergraduate major in Health Education prepares the student to be certified as a school health educator and/or coordinator of public school health programs. Individuals following this program may also seek employment in various health related agencies.

Required courses for the **major** are: Health, 260, 270, 381, 363, 365, 461 and Psychology 250. Nine additional hours in Health must be selected with approval of the faculty advisor. Additional requirements outside the major are Biology 131 and 307, Chemistry 109 and Sociology 295.

MAJOR IN HEALTH AND SAFETY—SCHOOL HEALTH AND DRIVER EDUCATION

The major in health and safety—school health and driver education (reference number 692) requires a minimum of 36 semester hours and leads to a Bachelor of Science degree. An undergraduate major in Health and Safety prepares the student to be certified as a school health and driver education teacher and/or coordinator in the public schools. Additional employment opportunities are available in various public and private health and safety agencies.

Required courses for the **major** are: Health 260, 270, 370, 381, 461, 470, 471 and Psychology 250. An additional 12 hours in Health and Safety must be selected with the approval of the faculty advisor. Requirements outside the major are: Biology 131 and 307; Chemistry 109; and Sociology 295.

The 12 hours in Safety and Driver Education meet the State requirements for certification of driver education teachers. The requirements of the Teacher Education Curriculum must be met by the Health and Safety major.

AREA OF CONCENTRATION IN COMMUNITY HEALTH—PUBLIC HEALTH

The area of concentration in community health—public health (reference number 521) requires a minimum of 60 semester hours and leads to a Bachelor of Science degree. Required courses are: Health 167, 171, 260, 270, 381, 383, 384, 442, 461, 481, 483, 484 and 490; Psychology 100, Sociology 110 and 295, Speech 145, and Journalism 202. Three hours of health electives must be chosen with the guidance of a faculty advisor. In addition to meeting the general education requirements of the university, the student must take: Biology 131 and 307 and Chemistry 109.

AREA OF CONCENTRATION IN HEALTH CARE ADMINISTRATION

The area of concentration in health care administration (reference number 559) requires a minimum of 56 semester hours and leads to a Bachelor of Science degree.

The undergraduate degree program in Health Care Administration prepares the student for administrative positions in various types of health care facilities and agencies.

Required courses in the **area of concentration** are: Accounting 200 and 201, Business Administration 301 and 310, Health and Safety 171, 260, 290, 340, 344, 381, 383, 384, 442, 443, 445 and 446, Home Economics and Family Living 167, Sociology 355 and Psychology 199.

In addition to meeting the general education requirements of the university, students pursuing the Health Care Administration curriculum must take the following: Economics 202 and 203 and Biology 131 and 307.

AREA OF CONCENTRATION IN ALLIED HEALTH EDUCATION—HEALTH OCCUPATIONS EDUCATION

The area of concentration in allied health education—health occupations education (reference number 511) requires a minimum of 48 semester hours and leads to a Bachelor of Science degree.

The Allied Health Education Program prepares the credentialed health practitioner for teaching positions in health careers and health occupations programs in the secondary and post-secondary schools.

Required courses in the **area of concentration** are: Health 430, 432 and 433. Nine additional hours in Health must be selected with the approval of the faculty advisor. In addition, students pursuing the Allied Health Education curriculum must be licensed, registered or certified in a health specialty for which they may receive up to 30 hours credit, based on evaluation of credentials, to complete the area of concentration.

In addition to the 48 hours in the Area of Concentration, the student will complete 24-29 hours of professional education courses required for secondary and vocational teacher certification.

MINOR IN HEALTH EDUCATION

The minor in health education (reference number 389) requires a minimum of 22 semester hours. There are two options under this minor. An option which leads to secondary certification requires: Health 260, 381, 461 and Biology 131. Nine additional hours must be selected from Health 270, 363, 365, 384, 444, 463, 469, 481, and Psychology 250 with the guidance of a faculty advisor. Another option which leads to junior high/middle school certification requires: Health 260, 381, 461, 465 and Biology 131. Nine additional hours must be selected from Health 270, 363, 365, 384, 456, 460, 469, 481 and Psychology 250.

MINOR IN HEALTH CARE ADMINISTRATION

The minor in health care administration (reference number 386) requires a minimum of 21 semester hours. Requirements are: Health and Safety 171, 340, 344, 443, 381, 290 and 345. Three hours of electives must be selected from Health and Safety 384 and 442. It is suggested that the minor be taken in conjunction with a major in business administration or an area of concentration in administrative science.

DRIVER EDUCATION IN THE SECONDARY SCHOOL

The driver education in the secondary school option requires a minimum of 12 semester hours. Required courses are: Safety 270, 370, 470 and 471. This option leads to certification as a driver education teacher.

SPECIALIZATION IN HEALTH EDUCATION IN JUNIOR HIGH/MIDDLE SCHOOL

The specialization in health education in the junior high/middle school option requires a minimum of 12 semester hours. Required courses are: Health 260, 381 and 469. Three additional hours must be selected from Health 363, 365 and 465.

ASSOCIATE DEGREE IN FIRE TECHNOLOGY

The associate degree in fire technology (reference number 235) requires a minimum of 67 semester hours and leads to an Associate of Science degree. The Program provides the student with the technical knowledge and skills necessary for entry into a variety of professions concerned with fire prevention, protection, and suppression. Required courses are: English 101 and 207, Mathematics 100, Chemistry 101, Physics 101, Government 315, Industrial Education 110 and 241, Health and Safety 130, 131, 232, 233, 235, 271, 331, 334, 335, 336. Nine hours of electives must be selected with approval of the advisor.

ASSOCIATE DEGREE IN HEALTH CARE ADMINISTRATION

The associate degree in health care administration (reference number 244) requires a minimum of 65 semes-

ter hours and leads to an Associate of Science degree. Required courses are: English 101 and 102, six hours of electives in English or Humanities, three hours of mathematics, four hours of chemistry, Biology 307, Psychology 100, Sociology 110, Accounting 200 and 201, Economics 202 and 203, Business Administration 310, Health and Safety 100, 171, 290, 340, 344 and 345. Three hours must be selected from Health and Safety 167, 381, 384 and 443.

ASSOCIATE DEGREE IN OCCUPATIONAL SAFETY AND HEALTH

The associate degree in occupational safety and health (reference number 275) requires a minimum of 67 semester hours and leads to an Associate of Science degree. The program provides the student with the knowledge and skill necessary to function as a competent occupational safety and health specialist in the industrial, institutional, insurance, and governmental sectors of our society. The flexibility of the program also allows the presently practicing professional to enhance and supplement current knowledge in the field.

Required courses are: English 101, and 207, Mathematics 100, Chemistry 101, 105 or 109, Physics 321 or 109, Biology 148, Psychology 370, Industrial Education 310, Engineering Technology 440, Health and Safety 120, 221, 224, 321, 322, 327, 367 and 423. Twelve hours of electives must be selected with approval of advisor.

GRADUATE DEGREE PROGRAMS

Graduate study of health and safety education is available in three degree plans: (1) The Master of Arts in Education, with a major and minor in Health Education, (2) The Master of Arts in Education, with a major and minor in Health and Safety Education (Driver Education) and (3) The Master of Science with a major in Public Health. For more detailed information, consult the Graduate College Bulletin.

COURSES OF INSTRUCTION

HEALTH

100 Personal Health. 3 hours.
Personal health problems of students are emphasized, and factors influencing behavior related to health in our complex society are explored. The major purpose is for the student to assess his behavior in the light of current scientific knowledge concerning mental health; drugs, alcohol and tobacco; health care; selection of health products; prevention of disease; nutrition; exercise, rest and relaxation. (Every Semester)

150 Applied Health: Weight Control. 3 hours.
An applied health course which includes an indepth examination and application of the principles of proper diet, physiology and psychology as they relate to weight control.

165 Drug Abuse. 3 hours.
This course offers an opportunity for the student to explore the drug culture, and both healthful and harmful use of drugs. The scope will include marijuana, hallucinogens, narcotics, stimulants, depressants and volatile chemicals. Pharmacological, psychological and sociological aspects of drug abuse will be studied through individual research, group discussion, lectures and field-trips when practical. (Fall, Spring)

167 Human Nutrition (also HEFL 167). 3 hours.
Includes a study of the nutrients essential to human life and well-being, their function in metabolism, their sources in food as it is consumed and the application of this information to the significant relationship between food habits and health.

171 Safety and First Aid. 1 hour.
The course is designed to prepare students to provide immediate and temporary care in emergency situations involving accidents or sudden illness. The symptoms and appropriate treatment for shock, wounds, heat and cold injuries, poisons and proper methods of transportation will be covered. The course is applicable to all students, especially those pursuing a teaching career where they will be responsible for other students entrusted to their supervision and care. (Every Semester)

230 Dental Health Education. 3 hours.
A study of direct and indirect methods of dental health education. Emphasis on teaching units in public schools in the context of federal, state and local community health problems. Learning to plan, develop and evaluate instructional materials. (Spring)

260 Foundations of Personal Health. 3 hours.
Directed toward self-understanding, especially in relation to the promotion of mental, physical and social efficiency. Seeks to provide basic knowledges related to mental health; selection of health products and services; use of drugs and narcotics, alcohol and tobacco; causation and prevention of diseases and nutrition. A basic purpose is to develop intelligent self-direction of health behavior. (Required for majors and minors in Health Education or Health and Safety Education). (Fall & Spring)

271 Emergency Care and Transportation.
5 hours.
This course will cover: (1) Legal liability and implications for emergency care and transportation personnel. (2) First Aid training by the "Priority of Procedure" method, to include control of hemorrhaging, alleviating airway blockage, shock, mouth-to-mouth respiration, use of inhalation equipment, closed chest cardiac massage, treating fractures and preparation and transportation of injured victims. (3) Special areas of emergency care: heat injuries, hysteria, unconsciousness, diabetic, coronary, stroke, allergic reactions, alcoholism, contagious disease with an injury, radioactive contamination, emergency childbirth, animal and insect bites and stings. (4) Extrication for electrical source, automobile fire, etc. (5) Operation, sanitation and care and maintenance of ambulance equipment. (6) Defensive driving of ambulances. (7) Professional approach and psychological first aid. Two hours lecture and two hours laboratory each week. (Fall and Spring)

290 Medical Terminology. 2 hours.
A course designed to acquaint the student with the specialized language of medicine and to develop communication skills in areas where use of medical terms is necessary and appropriate. (Fall and Spring)

310 Family Health. 2 hours.
Prerequisites: Biology 131 and 107.
Science of personal and environmental preventive health measures and resources related to the family and the home care of the sick. For Home Economics majors. Lecture. (Fall and Spring)

340 Health Care Organization and Management. 3 hours.
This course will provide for the exploration of the historic, social, political, economic and scientific factors as they affect the development and organization of health care delivery systems. It will include the structure of medical practices, health agency organization consumer expectations, health insurance, technological advances, federal, state and local responsibilities and other critical areas of health care administration. Includes field trips. (Fall and Spring)

344 Health Systems Management. 3 hours.
This course will provide theories of management as related to the health care facility. Emphasis will be placed on the organizational structure as it applies to levels of management. Comparative management structures of official health agencies, hospitals, nursing homes and voluntary health agencies will be discussed. Operational and program goal setting will be an integral part of this course. (Fall)

345 Practicum in Health Care Administration.
3 hours.
Prerequisites: Health and Safety 340, 344.
This course will provide the student with administrative experiences in his major field of endeavor within the health care facility. The type of facility chosen for each individual experience will depend upon the type of facility in which the student plans to seek employment after graduation. The selection of the facility will depend upon a qualified person to serve as a preceptor.

347 Bases of Speech (also Speech 347).
3 hours.
The social, physical, physiological, neurological, phonetic, linguistic, psychological, genetic and semantic bases of speech will be studied. (See Communication and Theatre)

363 Health Services for School Personnel.
3 hours.
Investigation of school and community health services, including: screening for visual, hearing, nutritional and emotional disorders; the role of school personnel in the health appraisal; referrals and followup techniques; recognition and control of communicable diseases, first aid and emergency care; and health screening techniques. Emphasis on coordination of school and community health services. (Fall and Spring)

365 Health in the Family. 3 hours.
Includes social, psychological and biological aspects of family life, such as: courtship, marriage, reproduction, child health and problems of the aged. Emphasis on maintenance of physical, mental and social health within the family and utilization of available community resources. (Every Semester)

381 Community Health. 3 hours.
Study of international, national, state and local health problems, and the governmental and voluntary health agencies which deal with these problems. Incidence and prevalence of specific community health problems; solutions suggested through coordinated efforts of school, health and welfare organizations. Includes field trips to health and mental health agencies. (Fall and Spring)

383 Biostatistics in the Health Sciences.
3 hours.
Prerequisites: Health 361 and 3 hours math.
Introduction to statistical methods, scientific structure of study design, hypothesis formation and verification and study classification. Descriptive statistics and data presentation. Data sources questionnaire construction, interviewing techniques and use of appropriate electronic calculators.

384 Introduction to Epidemiology. 3 hours.
Prerequisites: Health 260 and Biology 131.
Current concepts of disease etiology and control as applied to the most prevalent communicable and chronic diseases of mankind. Emphasis placed upon preventive health behavior.

425 Medical Entomology (also Bio. 425).
3 hours.
Prerequisite: Biology 152 or permission of the instructor.
A study of the structure, identification and control of insects and other arthropods which create pathological conditions in man, either directly or through transmission of disease producing organisms. (See Biology)

430 Orientation to Health Care Systems Personnel. 3 hours.
This course is concerned with an investigation of health care systems of the past, present and future. Emphasis will be placed on the role of the allied health professions in the health care picture. (Fall)

432 Health Occupations. 3 hours.
Prerequisites: Student must be working toward state certification requirements for health occupations teachers or permission of instructor.
Emphasis in this course is placed on a survey of the broad scope of health occupations. In addition, health manpower trends and criteria to be applied in career selection are studied. (Fall)

433 Seminar in Health Occupations. 3 hours.
Prerequisites: Health 430 and 432 or permission of instructor.
An in-depth study of selected health occupations wyll be conducted. Through individual research, interviews and on-the-job observation occupations will be analyzed and discussed. (Spring)

42 Principles and Methods of Health Planning. 3 hours.
This course will provide theoretical foundations and methodology used in health planning. It will include the roles of government, health professions and consumers in the process of planning for health services, facilities and manpower. (Spring)

443 Health Problems of the Aged. 3 hours.
This course will provide the student with knowledge of the ecological factors affecting human health and longevity, current health problems and research concerning changing concepts of health and disease as they relate to the aged. (Fall)

444 Death Education. 3 hours.
Prerequisite: 3 hours of social or behavioral science.
A study of man's relationships to death and dying, designed to help people come to terms with their eventual death, cope with the death of loved ones, cope with death fears, and the prevention of suicide. Field trip required.

445 Internship in Health Care Administration.
5 hours.
This internship will provide the student administrative experience in a health care facility. The type of facility chosen for each individual experience will depend upon the type of facility in which the student plans to seek employment after graduation. The selected facility will have a qualified administrator to serve as preceptor. (Every Semester)

446 Senior Seminar. 3 hours.
The purpose of this seminar is to unify all experiences gained from the individual internships. The uniqueness and similarities of the various health care facilities will be explored. An analysis of current concepts of health care administration as they relate to the individual experiences will be included. (Fall, Spring)

456 Advanced Studies in Health & Safety.
3 hours.
Specific and detailed analysis of practical problem areas in Health and Safety. Designed specifically for independent study. (Every Semester)

460 School and Community Health Workshop.
3 hours.
Coordination of school and community health programs and personnel in seeking solutions for common health problems. Sponsored jointly by the Kentucky State Department of Health, Kentucky State Department of Education and Western Kentucky University. Includes field trips to health agencies. (Summer)

461 School Health Organization. 3 hours.
Presenting standards and criteria for the three phases of the school health program; health services, healthful school environment and health instruction. Discussion of the role of administrators, teachers, counselors and health service personnel in conducting and coordinating the total school program. Includes visitation in public schools. (Fall and Spring)

462 Folk Medicine (also Folk Studies 462).
3 hours.
This course will review the relationship of folk medicine to scientific medicine in terms of the partial displacement of folk medicine by rational thought, and its persistence in a scientific era as a set of health systems based on survival of alchemy, astrology, witchcraft, folk religion and other non-scientific modes of thought.

463 Consumer Health. 3 hours.
This course examines the benefits and/or hazards associated with health related products, services and information presently available to the consumer. The methods and techniques of health frauds are analyzed. Emphasis is placed on the development of individual criteria for the potential selection and purchase of health products and services. Field trips may be required.

465 Health and Safety in the Elementary Schools. 3 hours.
Prerequisite: Personal Health 100 or a similar course.
An exploration of the nature and purpose of school health and safety in the elementary school, including curriculum development, instructional content areas, appraising students' health and evaluation. (Fall and Summer)

466 Clinical Health Education. 3 hours.
Prerequisite: 12 semester hours Health course work.
A course designed for health educators working or planning to work in a clinical situation. Includes an examination of patient education, health facility personnel education, clinical health education program development, family health education, discharge counseling, continuing education and multidisciplinary health education approaches. May include field trips.

469 Critical Issues in Health and Safety.
3 hours.
Prerequisites: Health 260, 361, Psychology 250.
Analysis of current health problems from both school and community viewpoints. The purpose of the course is to permit in-depth exploration, through research and discussion, of specific local, national and world-wide health and safety problems.

480 Introduction to Speech Pathology (also Speech 481). 3 hours.
Introduction to the field of speech pathology dealing with the development of speech and language, the cause and treatment of the simpler deviations from normal speech and language. This course will deal with identification of the more common speech problems and suggestions for the remedy of those problems. (See Communication & Theatre)

481 Environmental Factors of Health Problems. 3 hours.
This course examines the environment and its relationship to disease causation. Physical, chemical, biological and behavioral-sociological factors of man's environment will be discussed. Areas of concentration include the ecology of health and disease, air and water pollution, insect vector and rodent control, housing, noise pollution, population imbalance and consumer protection. Includes field trips. (Spring and Summer)

483 Administration of Health Programs.
3 hours.
Introductory study of the basic principles, theories and practices of public health administration. Emphasis will be placed on the development and organization of health programs from voluntary and official agencies to meet the health needs of the community.

484 Community Organization for Health Education. 3 hours.
The purpose of this course is to study the

role of the health educator in solving community health problems. Emphasis will be placed on proper methods and techniques of communications, processes by which a community identified its needs and the importance of cultural and social factors in community organization and community development. The importance of identifying present or potential leaders of a community and utilizing available community resources will be stressed. Principles of community organization and planning as a process will be included. Special emphasis will be placed on understanding the relationships between mass media, change in group behavior and community behavior in not only accepting but creating change. (Spring)

490 Field Experience in Community Health. 4 to 8 hours.
Prerequisites: Health 260, 381, 483 and 484. Individual arrangement for directed field experience planned with official and voluntary health agencies. This field experience is supervised by University faculty and personnel from the official and/or voluntary health agencies. (Every Semester)

DRIVER EDUCATION AND SAFETY

258 Automobile Mechanics. 3 hours.
An introductory course on the automobile. It covers the theory of operation and the construction, maintenance, repair and adjustment of the automotive components. Recitation and laboratory.

270 General Safety. 3 hours.
Complete analysis of causes and prevention of accidents with an emphasis on analysis and hazard recognition. Major topics include: school, pedestrian, bicycle, home, recreational, farm, fire and vocational safety.

370 Driver Education and Traffic Safety I. 3 hours.
Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operation and traffic laws and regulations. Includes laboratory experience for developing driving skills. (Every Semester)

470 Driver Education and Traffic Safety II. 3 hours.
Prerequisite: Safety 370 or equivalent.
This course deals with the management of the classroom and laboratory phases of the high school driver and traffic safety education program. Simulation and range programs are given special emphasis. Every Semester)

471 Advanced Studies in Driver Education. 3 hours.
Prerequisite: Safety 370 or equivalent.
This course deals with the advanced instructional technology needed to meet the needs of the driver and traffic safety education programs. Major emphasis will be placed on motorcycle safety education and the behavioral approach to traffic safety education. (Every Semester)

FIRE TECHNOLOGY COURSES

130 Fire Department Organization. 3 hours.
The organizational structure of a municipal fire department is discussed. Topics of discussion include fire department organization, fire company organization, the battalion, the company officer, personnel administration, communications, maintenance, training, company fire fighting capabilities, apparatus and equipment, records and reports and legal aspects of fire fighting.

131 Fire Strategy and Tactics I. 3 hours.
Fire fighting problems are presented that are commonly encountered by the fire fighter. Fundamental strategy and the method of attack employed for each fire problem presented are thoroughly reviewed.

135 Introduction to Fire Protection. 3 hours.
A study of the history and philosophy of fire protection; a review of statistics of loss of life and property by fire; an introduction to agencies involved in fire protection; discussion of current related fire protection problems and a review of expanding future problems; a study of the concepts of fire behavior; and the role of the fire department in the fire safety field.

232 Fire Investigation. 3 hours.
Fire detection problems are discussed, along with methods of determining causes. Arson investigation, including the involvement of all records and criminal codes, is covered.

233 Structural Designs for Fire and Life Safety. 3 hours.
The planning, design and construction of buildings with respect to fire and life safety is considered in the course. Topics include fundamental considerations in building design and construction, building surveys, construction features, and special problems all dealing with fire and life safety. Course covers engineering, plan review, survey and mapping techniques, recommendations for correction of deficiencies, and enforcement activities.

235 Administrative Methods and Practice in Fire Technology. 3 hours.
The information and understandings developed in the previous Fire Technology courses are reviewed. The student is given practical problems in all phases of fire prevention and administration.

331 Hazardous Materials Recognition and Control. 3 hours.
An examination of the properties of hazardous materials, an analysis process for use in situations involving hazardous materials, and control measures for stabilization of hazardous materials emergencies. Course applicable to all situations involving hazardous materials — fire service, transportation or industrial use.

334 Fire Protection Systems and Equipment I. 3 hours.
Topics discussed include portable fire extinguishing equipment, standpipe systems and sprinkler systems. Design of systems will be included. Opportunities are afforded for visits to local facilities that have fire protection and systems so that critical appraisals can be made.

335 Fire Protection Systems and Equipment II. 3 hours.
Topics to be discussed are related fire protection systems for special hazards including foam, carbon dioxide, dry chemical, halon, explosion suppression and detection and supervisory systems. Design, installation, inspection and maintenance will be covered. Opportunities for field trips to local facilities are included.

336 Fire Protection Water Supply Analysis and Hydraulics. 3 hours.
Instruction is designed to give the student a sound knowledge and understanding of fire protection water supplies and associated hydraulics. Student becomes familiar with water supplies, water distribution systems, fire service pumps and application devices, and fire protection water supplies for automatic sprinkler and standpipe systems. Practical aspects cover determining required fire flows, flow testing of water distribution systems and fire service pumpers, and fireground hydraulics.

OCCUPATIONAL SAFETY AND HEALTH

120 Introduction to Occupational Safety and Health. 3 hours.
An introduction to the principles of occupational safety and health. A survey course covering the basic principles and techniques of accident investigation and prevention. Includes field trips. (Fall)

221 Safety and Health Standards, Codes, and Regulations. 3 hours.
A review of the important occupational safety and health standards and codes with particular emphasis on application of these codes to typical work situation. Includes field trips. (Spring)

222 Motor Fleet Safety. 3 hours.
Prerequisite: I.E. 310.
A basic introduction to problems and practices of motor fleet safety programming with emphasis on regulatory requirements. (Spring)

224 Industrial Fire Protection. 3 hours.
Prerequisite: Consent of instructor.
A survey course covering fire cause, building construction, flammable materials, private fire protection and codes and laws. (Spring)

321 Elements of Industrial Hygiene. 3 hours.
Prerequisite: I.E. 310.
A basic introduction to the field of Industrial Hygiene. A survey of the effects of toxic agents on the body and general methods of control. Includes field trips. (Spring)

322 Physical Hazards Recognition and Control. 3 hours.
Prerequisite: H&S 221.
An examination of physical hazards in the work environment and methods of recognition and control. Includes field trips. (Fall)

327 Physical Hazards Recognition and Control II. 3 hours.
Prerequisite: H&S 322.
Continuation of H&S 322. An examination of the control of physical hazards in work environment. Includes field trips. (Spring)

367 Supervised Work Experience in Industry (I.E. Industrial Education). 1-6 hours.
Supervised employment in industry. Assignments individually arranged by University Coordinator and the cooperating industry. Written reports required. (Fall, Spring, Summer).

423 Safety Program Management. 3 hours.
Prerequisite: I.E. 310, H&S 321 & 322.
Designed to acquaint the student with the common elements of a modern safety program. (Fall)

426 Human Factors in Safety. 3 hours.
Prerequisite: I.E. 310.
Designed to acquaint the student with the physiological and psychological factors that contribute to accident causation and exploration of theoretical and research findings. (Fall)

GRADUATE COURSES

501 Analysis of Research in Health & Safety. 3 hours.

520 Vital and Medical Statistics. 3 hours.

530 Independent Investigations in Health & Safety. 3 hours.

545 The Health Education Curriculum. 3 hours.

546 Field Work in Community Health Programs. 3 hours.

567 Administration and Supervision of Health & Safety Programs. 3 hours.

570 School and Community Safety Programs. 3 hours.

580 History and Philosophy of Public Health. 3 hours.

581 Methods in Public Health Education. 3 hours.

582 Epidemiology: Practice and Theory. 3 hours.

583 Public Health Administration. 3 hours.

584 Health Planning. 3 hours.

585 International Health. 3 hours.

586 Health Economics. 3 hours.

587 Health, Illness and Sick Role Behavior. 3 hours.

588 Seminar in Public Health. 3 hours.

590 Public Health Law. 3 hours.

599 Thesis Research and Writing. 6 hours.

599c Maintaining Matriculation. 1 to 6 hours.

DEPARTMENT OF HOME ECONOMICS AND FAMILY LIVING

ACADEMIC COMPLEX, CANON WING, ROOM 303

Professor Wm. A. Floyd, Head

Professors: L. Fong, D. Hayden, R. Hedges, M. Jenkins
Associate Professors: V. Atkins, S. Clark, S. Gibbs, W. Kleeman, V. Moore, J. Rasdall
Assistant Professors: D. Benardot, H. Kelley, D. Rice, L. Stiles
Instructors: J. Beamish, F. Haydon, M. Richardson

Graduates of accredited high schools who meet the general admission requirements of Western Kentucky University may enroll in the Department of Home Economics and Family Living. Students planning to major in the department are urged, at the secondary level, to take courses in chemistry, mathematics, the social and behavioral sciences.

Detailed information regarding the programs in Home Economics and Family Living is available in the departmental office. Students are requested to ask for this information which sets forth the course requirements for each major or area of concentration. Curricula advisors will be assigned to provide special counsel in regard to particular problems.

The purpose of the program in Home Economics and Family Living is to educate the student for home and family living, to enhance the student's capacity for functioning more efficiently in the community and to provide training which will enable the individual to enter a specialized field of work, such as teaching, extension service and commercial positions in food firms and equipment, interior design and retail organizations. Students who take advanced work may become high school supervising teachers, college faculty members, registered dietitians, family counselors, child development specialists and/or researchers.

The curriculum in Home Economics Education qualifies one for the Provisional High School Certificate in Vocational Home Economics. A fifth year internship for majors in Dietetics and Institution Administration is available so that students can qualify for membership in the American Dietetics Association. Most Interior Design and Textile and Clothing majors undergo a merchandising internship during the senior year.

Instruction in each specialty includes both classroom lectures and laboratory experiences. Work is done with children in the child development laboratory and parent-child centers, with new fibers, fabrics and finishes and design in the textile and interior design laboratories, with food texture, color and quality in the institutional dining room and food science laboratory; and with current teaching machines and pedagogical materials in the home economics education laboratory and during student teaching in selected high schools.

MAJOR IN INSTITUTION ADMINISTRATION: HOTEL-MOTEL MANAGEMENT

The major in institution administration: hotel-motel management (reference number 707) requires a minimum of 34 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 160, 261, 390, 391, 392, 393, 492, 493, 494, 496 and 497. A minor in Business Administration is required for graduation.

MAJOR IN INSTITUTION ADMINISTRATION: RESTAURANT MANAGEMENT

The major in institution administration: restaurant management (reference number 710) requires a minimum of 36 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 261, 390, 391, 392, 393, 439, 492, 493, 496 and 497. A minor in Business Administration is required for graduation.

MAJOR IN INTERIOR DESIGN

The major in interior design (reference number 713) requires a minimum of 35 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 221, 231, 280, 321, 382, 384, 385, 386, 411, 430 and 439.

MAJOR IN TEXTILES AND CLOTHING

The major in textiles and clothing (reference number 796) requires a minimum of 34 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 130, 132, 221, 231, 333, 433 and 15 hours of restricted electives chosen in consultation with departmental advisor. A minor in General Business or Business Administration is required for Merchandising Orientation.

AREA OF CONCENTRATION IN DIETETICS AND INSTITUTION ADMINISTRATION

The area of concentration in dietetics and institution administration (reference number 523) requires a minimum of 48 semester hours of dietetics and institution administration plus 22 semester hours of related courses to meet ADA requirements and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 150, 160, 261, 262, 363, 365, 366, 370, 371, 390, 391, 461, 464, 465, 492, 493, 494, 496, 497, ISDE 142, ACCT 200, BS ADM 311 or PSY 370 and CHEM 309.

AREA OF CONCENTRATION IN HOME ECONOMICS EDUCATION

The area of concentration in home economics education (reference number 562) requires a minimum of 68 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 130, 150, 160, 231, 232, 340, 261, 262, 280, 370, 371, 381, 382, 352, 451, 441, 445, 411, 490, 471, SEC ED 370 and 480.

AREA OF CONCENTRATION IN INTERIOR DESIGN

The area of concentration in interior design (reference number 574) requires a minimum of 54/60 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 221, 231, 280, 321, 382, 384, 385, 386, 411, 430, 439 and 19/25 hours of restricted electives, including architectural survey, specifying and buying interior furnishings, selling and other courses, chosen in consultation with departmental advisor.

AREA OF CONCENTRATION IN TEXTILES AND CLOTHING

The area of concentration in textiles and clothing (reference number 597) requires a minimum of 54 semester hours and leads to a Bachelor of Science degree. Required courses are: HE FL 111, 130, 132, 231, 433 and 41/47 hours of required courses and restricted electives to develop one of the following emphases:

Merchandising
(HE FL 221, 333, 411 and 439, as well as courses in accounting, business and advertising, chosen in consultation with a departmental advisor.)
Communications
(HE FL 232, 370, 371, 425 and 431, as well as courses in business communications, professional speaking, audio visuals, and other courses, chosen in consultation with a departmental advisor.)
General
(HE FL courses in textiles and clothing and supporting courses chosen in consultation with a departmental advisor.)

MINOR IN CHILD DEVELOPMENT AND FAMILY LIVING

The minor in child development and family living (reference number 338) requires a minimum of 21 semester hours. Required courses are: HE FL 150, 352, 451, 491 and 10 hours of restricted electives chosen in consultation with departmental advisor.

MINOR IN GENERAL HOME ECONOMICS

The minor in general home economics (reference number 371) requires a minimum of 19 semester hours. Required courses are: HE FL 111, 140, 167 and 12 hours of restricted electives chosen in consultation with departmental advisor.

MINOR IN INTERIOR DESIGN

The minor in interior design (reference number 398) requires a minimum of 18/24 semester hours. Required courses are: HE FL 231, 280, 382, 385, 386 and 5/11 hours of restricted electives chosen in consultation with departmental advisor.

MINOR IN TEXTILES AND CLOTHING

The minor in textiles and clothing (reference number 485) requires a minimum of 18/24 semester hours. Required courses are: HE FL 130, 132, 231 and 9/15 hours of restricted electives chosen in consultation with departmental advisor.

ASSOCIATE DEGREE PROGRAMS

The Department of Home Economics and Family Living does not offer any separate associate degrees, but an associate degree program can be arranged under the Associate of Liberal Studies degree. Twenty-one hours in a subject matter are required. Students interested in these programs should consult the Director of Special Programs.

GRADUATE DEGREE PROGRAMS

Several programs on the graduate level are offered through this department. These are: the Specialist Degree in Education (Vocational Home Economics); Master of Arts in Child Development and Family Living; Master of Arts in Education (Home Economics Education major or minor) and Master of Science (Textiles and Clothing).

Specific information about the graduate programs can be obtained from the Bulletin of the Graduate College and from the departmental office.

COURSES OF INSTRUCTION

HOME ECONOMICS AND FAMILY LIVING

GENERAL COURSES

111 Introduction to Home Economics and Family Living. 1 hour.
Introduces the student to the structure of the University, the College of Applied Arts and Health Programs and the Department of Home Economics and Family Living. Required of all majors and general home economics minors who enter the department with less than 45 credits. Lecture.

411 Home Economics Senior Seminar. 1 hour.
Required for Home Economics Education, Textiles, Clothing and Design students. Includes individual study and group discussion of Home Economics professions and ethics. Lecture.

439 Internship. 8 hours.
Prerequisite: Senior standing.
Includes 8 weeks of supervised experience in an appropriate establishment. (Note: Application and copy of undergraduate program must be submitted to coordinator of the Internship Program one complete semester prior to the semester a student plans to do the practicum. A 2.5 grade point average in professional courses is required for eligibility. Students who do the internship in merchandising must have a minor in business, an area in merchandising or an equivalent amount of business and previous work experience in merchandising.)

498 Special Topics in Home Economics and Family Living. 1 to 3 hours.
Prerequisite: Approval of the Head of the Department.
Investigation of problems selected from: (1) child development and family living; (2) dietetics, foods, nutrition, institution administration; (3) textiles and clothing, or interior design; (4) home economics education.

575 Individual Study. 3 to 6 hours.

580 Internship. 3 hours.

598 Special Topics in Home Economics and Family Living. 1-6 hours.

599 Thesis Research. 6 hours.

CHILD DEVELOPMENT AND FAMILY LIVING

140 Management of Family Resources. 3 hours.
The decision-making processes involved in the use of available resources for the procurement of clothing, food, housing, and various services, to satisfy personal and family needs are studied.

150 Child Development. 3 hours.
The physical, mental, social and emotional development of children is considered. Lecture-Field trips-Observations.

352 Family Relations. 3 hours.
Prerequisite: Junior standing.
Problems affecting family life and personal adjustments necessary for family living are studied. Lecture.

445 Seminar in Family Economics. 1 hour.
Prerequisite: Senior standing.
Current literature in family and consumption economics studied and discussed.

451 Growth and Guidance of Children. 2 hours.
Prerequisites: HEFL 150 and Psychology 100.
Biological and physical needs in the growth of preschool children and the influence of family and home environment on their development and relationship with others are studied. Required observation and participation in nursery school. Lecture-Laboratory-Field trips.

491 Family Life Education. 3 hours.
Principles, practices and contents of family life education are taught to give an overview of the field in an educational setting. The primary purposes of the course are to enhance both the knowledge of content and the communication skills of public school and college teachers. It is designed to assist home economics, psychology, sociology, health and other teachers to present units and/or courses in family life education. Extension agents, social workers, and members of the mental health professions might wish to enroll.

576 Theories of Child Development. 3 hours.

577 Seminar in Child Development Research. 3 hours.

578 Seminar in Research in Marital and Family Therapy. 3 hours.

579 Professional Methods in Marital and Family Therapy. 3 hours.

DIETETICS, FOODS, NUTRITION, INSTITUTION ADMINISTRATION

150 Child Development (See above)

160 Food Science. 3 hours.
Includes fundamental principles of food preparation. Efficient methods of preparation stressed in laboratory practice. Lecture—Laboratory.

167 Human Nutrition. 3 hours.
Open to students registered in any program in Education and Dietetics, except Home Economics. Includes a study of the nutrients essential to human life and well-being, their function in metabolism, their sources in food as it is consumed and the application of this information to the significant relationship between food habits and health. Lecture.

261 Food Management. 3 hours.
Prerequisite: HEFL 262 or consent of the instructor—(concurrent Microbiology recommended).
Food for the family and consumer is studied in relation to bases for selection comparative costs, food values, storage requirements, legislation, and science and aesthetics of meal planning and service. Lecture—Laboratory.

262 Nutrition. 3 hours.
Prerequisites: Physiology 131, Chemistry 105, concurrent with HEFL 261 or consent of the instructor.
Principles of normal human nutrition and the selection of foods to meet recommended individual nutritional recommendations are studied. Lecture—Laboratory.

300 Nutrition for Elementary Teachers. 2 hours.
Open to all students except majors in Home Economics and Family Living.
A course based on the fundamentals of an adequate diet for adults and children. Emphasis is placed on ways teachers can enrich the school and community programs. Lecture.

363 Advanced Nutrition. 3 hours.
Prerequisites: HEFL 262, Chemistry 105 and 107, or consent of the instructor.
Physical growth and food requirements for normal nutrition are studied by age groups —infancy through adolescence and adults, including elderly persons. Lecture—Laboratory—Field trips.

365 Child Nutrition. 3 hours.
Prerequisites: HEFL 261 and 262.
Nutritional requirements of children are considered. Designed to strengthen the background of students in Child Development and Family Living. Lecture—Laboratory—Field trips.

366 Maternal Nutrition. 3 hours.
Family nutrition with special emphasis upon the nutritional needs of the mother. The relation of nutrition to physical growth is studied. Lecture—Laboratory—Field trips.

370 & 371 (Home Economics Education for Description)

390 Institution Management. 3 hours.
Prerequisite: HEFL 261 and 262.
Organization and management of different types of institutional food services are studied. Lecture—Field trips.

391 Institution Equipment, Maintenance and Layout. 3 hours.
Prerequisite: HEFL 261, 262, 390 or consent of instructor.
Selection of equipment and furnishings to meet the needs of different types of food services are studied in relation to function maintenance, efficient layout, specifications, material, safety and sanitation. Lecture—Laboratory—Field trips.

392 Selection of Furnishings for the Food and Lodging Industry. 3 hours.
Prerequisites: HEFL 120 and 390.
Special concern is given to design, purpose, utility and materials in selection of furnishings for institutions. Lecture—Field trips.

393 Executive Housekeeping and Management. 3 hours.

Prerequisites: HEFL 390, B.A. 311 or concurrently or consent of instructor.
Problems of administration of organizations providing overnight accommodations are studied. Considers public health practices, housekeeping procedures and training and supervision of personnel. Lecture—Laboratory—Field trips.

439 Internship (See General Courses).

461 Advances in Science of Nutrition. 3 hours.
Individual study of past and recent literature and research concerned with foods and nutrition for various age groups and peoples. Lecture—Laboratory.

464 Advanced Foods. 3 hours.
Prerequisites: HEFL 261, Chemistry 107, or consent of instructor, Biology 207 recommended.
Chemical, physical and microbiological factors related to the behavior and characteristics of food. Lecture—Laboratory.

465 Diet Therapy. 3 hours.
Prerequisites: HEFL 393, Microbiology, and Chemistry 309.
Studies application of the principles of nutrition in the treatment of certain organic, functional and metabolic diseases or conditions. Lecture—Laboratory—Field trips.

466 Experimental Foods. 3 hours.
Prerequisite: HEFL 464 or consent of instructor.
A study of ingredients and their function and factors involved in food preparation; evaluation of foods by objective measurements. Lecture—Laboratory.

472 Food and Microbiology. 4 hours.
Prerequisites: Biology 158-159 or consent of instructor.
A study of the preservation, fermentation and spoilage of foods including a study of food and milk microbiology. Lecture, two hours—Laboratory, four hours. Cross-listed with Department of Biology.

492 Institution Food Preparation. 3 hours.
Prerequisite: HEFL 391 or consent of instructor.
Basic food preparation princíples applied to quantity food production and services and standardization of recipes and procedures. Lecture, one hour—Practicum, ten hours.

493 Institutional Purchasing. 3 hours.
Prerequisite: HEFL 492.
Considers principles and methods of buying food and supplies for various types of quantity food services, with emphasis on specifications, standards, inventory and factors affecting quality and cost control. Lecture—Laboratory—Field trips.

494 Applied Institution Administration. 3 hours.
Prerequisites: HEFL 390 and 492.
Standard methods of quantity food production, menu planning, food cost determination, job analysis and problems involved in institution administration. Actual administrative responsibilities under supervision are required. Lecture, one hour—Practicum, ten hours.

495 Organization and Management of School Lunch Service. 3 hours.
Prerequisites: HEFL 390, 494 and recommended Sec. Ed. 370 or Orientation to Education.
Organization and management of single and multiple school lunch units, including menu planning, purchasing, records, equipment and meal services. Lecture—Laboratory—Field trips.

496 Menu Planning and Merchandising for the Food and Lodging Industry. 3 hours.
Includes menu planning for various types of group feeding, meeting nutritional needs of the different age levels, portion costs, menu pricing and merchandising. Lecture—Laboratory—Field trips.

497 Food and Labor Cost Control. 3 hours.
Prerequisites: HEFL 390 and Principles of Accounting or consent of instructor.
Several aspects of concern to management are studied including: work management methods; the relationship of labor costs and merchanization; food cost controls; portion control methods of purchasing and preparation and application of effective accounting and inventory procedures. Lecture—Laboratory—Field trips.

HOME ECONOMICS EDUCATION

340 Home Management Theory. 3 hours.
Prerequisite: Junior standing in Home Economics.
A study of the factors affecting the management of the home in meeting the needs of individuals and creating satisfying environment for the family. Special consideration is given to those problems involving the use of time, energy and money. Lecture—Field trips.

370 Materials and Methods in Home Economics Education. 3 hours.
Prerequisite: Junior standing in Home Economics Education or Dietetics, Sec. Ed. 370 or consent of instructor.
Includes a study of home economics in the school program, planning units, methods of teaching and lesson planning, home projects, equipment, textbooks, testing; Federal and State legislation for vocational education in home economics. Lecture—Laboratory.

371 Communication Techniques in Home Economics. 2 hours.
Prerequisite: Major or Minor in Home Economics and Family Living.
Includes commercial demonstration in all areas of Home Economics and Family Living and use of television and radio in teaching Home Economics.

381 Household Equipment. 3 hours.
Principles of physical construction, materials and comparative costs considered in selection, arrangement, use and care of household equipment. Lecture—Field trips.

441 Laboratory in Home Management. 3 hours.
Prerequisites: HEFL 130, 150, 231, 261, 262, 340 or consent of the head of the Department. Senior standing, Home Ec. Educ.
Managerial principles are applied to the use of time, money and energy; food management and preparation are a part of this experience. Selection, storage, arrangement and use of household supplies, equipment, furniture and furnishings are related to the family setting. Requires one-half semester home management house residence.

471 Advanced Methods in Home Economics Education. 3 hours.
A study of the background and trends in adult education for improved family living. Occupational training for high school youth and adults including an understanding of aid to the handicapped. Lecture—Field trips.

490 Student Teaching. 8 hours.
Prerequisites: Secondary Education 370 and 480 and HEFL 370.
Requires eight weeks of student teaching under qualified, affiliated high school teachers in area. Teaching experience in three or more areas of Home Economics; participation in home experiences, adult and F.H.A. programs, seminar and group conference.

572 Curriculum Development in Home Economics Education. 3 hours.

573 Evaluation in Home Economics Education. 3 hours.

574 Supervision in Home Economics Education. 3 hours.

TEXTILES, CLOTHING AND INTERIOR DESIGN

120 Basic Design. 3 hours.
Open to all majors and non-majors. The principles and elements of design are studied in relation to costume design, textiles, the house and its furnishings. Lecture—Laboratory—Field trips.

130a Elementary Clothing. 3 hours.
Open to all students with no previous experience in clothing construction. Lecture—Laboratory.

130 Clothing I. 3 hours.
Prerequisite: Experience in clothing construction in a secondary school or 4-H club projects.
Selection of commercial patterns, appropriate fabrics and construction techniques are covered. Emphasis placed on pattern alterations and experiences with new fabrics. (130b Home Economics Education orientation; 130c Textiles and Clothing Merchandising orientation). Lecture—Laboratory.

132 Perspectives of Dress. 3 hours.
Psychological, sociological and economic factors influencing clothing choices. Lecture.

221 Textile Design I. 3 hours.
Prerequisite: HEFL 120 or equivalent or consent of the instructor.
Decorative and structural creativeness is emphasized and applied to textile design. Lecture—Laboratory.

231 Textiles. 3 hours.
Includes fundamental facts concerning fibers, yarn and cloth construction; color and design; finishes. Performance and care are studied in relation to selection of fabrics for clothing and furnishings. Lecture—Laboratory—Field trips.

232 Clothing II. 3 hours.
Prerequisites: HEFL 120 and 130 or consent of instructor.
Basic techniques of tailoring are applied in the construction of a tailored garment. Lecture—Laboratory.

280 Housing Space for Family Living. 3 hours.
Prerequisite: HEFL 120.
Gives a functional basis for planning and arranging for efficiency of household work and activity areas. Socio-economic conditions related to finances, health, safety and landscape. Includes house plans and elevation drawings. Lecture—Laboratory—Field trips.

321 Period Furnishings. 3 hours.
A survey of past and contemporary design styles as related to home furnishings and interiors. Lecture—Field trips.

333 Textile and Clothing Merchandising. 3 hours.
Fundamental principles of merchandising fashion goods are considered. Includes retail mathematical calculations necessary to plan and control merchandising results, such as open to buy, turnover, stock/sales ratio. Lecture—Field trips.

382 Interior Design I. 3 hours.
Prerequisite: HEFL 280 or consent of instructor.
Includes a study of creative use of color, line, pattern and texture in the arrangement and design of furniture and accessories. Modern trends and new products are emphasized. Lecture—Laboratory—Field trips.

384 Interior Design Projects. 3 hours.
Prerequisite: HEFL 382.
Involves study and practical experience in the selection, arrangement and presentation of colors, fabrics and furnishings for actual clients. Lecture—Laboratory—Field trips.

385 Interior Design II: Nonresidential. 2 hours.
Prerequisite: HEFL 382.
A study of the design of nonresidential interiors. Lecture—Laboratory—Field trips.

386 Principles and Practices of Interior Design. 2 hours.
Prerequisite: HEFL 382.
A study of the principles and practices involved in the business of interior design. Lecture—Field trips.

420 Non-Residential Projects. 3 hours.
Prerequisites: HEFL 385, 386 and 424 or consent of instructor.
Involves the planning of non-residential interiors, including cost control, selection of furnishings, lighting, and presentation. Lecture—Laboratory—Field trips.

422 Textile Design II. 3 hours.
Prerequisites: HEFL 120 and 221 or equivalent, or consent of instructor.
A study of historic and contemporary designs. Experimentation in design and color as applied to costume, home furnishings and accessories. Lecture—Laboratory.

423 Interior Design Architectural Survey: History and Components. 3 hours.
Prerequisites: Junior, senior or graduate standing with background in interior design or permission of instructor.
Study of the interface and the interaction between architecture and interior design through history, with special emphasis on the components involved. Work by architects as well as vernacular or folk architecture will be included. Lecture—Field Trips.

424 Specifying and Buying Interior Furnishings. 3 hours.
Prerequisites: Background in Interior Design or consent of instructor.
An in-depth analysis of the behavioral basis for selecting and specifying interior artifacts to satisfy human wants and needs; a full examination of the marketplace mechanisms to implement specifications. Lecture—Field trips.

425 History of Costume. 3 hours.
Prerequisite: Senior standing or consent of instructor.
Costumes from ancient times to present day; cultural and economic factors considered. Lecture—Field trips.

427 Presentation Techniques. 3 hours.
Prerequisite: Background in Interior Design or consent of instructor.
The study of perspective and rendering materials and techniques used by interior designers. Lecture—Laboratory.

428 Merchandise Display and Promotion. 3 hours.
Application of principles and practices in arranging and displaying merchandise for commercial and educational purposes; planning and executing sales promotions. Actual experiences. Lecture—Laboratory—Field trips.

430 Historic Textiles. 3 hours.
Prerequisite: HEFL 231.
A study of decorative fabrics and the history of textile design from ancient times through contemporary productions. Lecture—Field trips.

431 Clothing and Human Behavior. 3 hours.
Prerequisites: 9 hours of social science or consent of instructor.
A study of dress and adornment as related to human behavior. Lecture.

432 Recent Developments in Textiles. 3 hours.
Prerequisite: HEFL 231.
New developments in textile field as reported in current literature. Lecture—Field trips.

433 Fashion Fundamentals. 3 hours.
Fashion as a social force. How the fashion world works; designers, leading markets, fashion cycles. Lecture—Field trips.

434 Advanced Clothing: Tailoring. 3 hours.
Prerequisite: HEFL 130 or consent of instructor.
Advanced techniques of tailoring are applied in construction of tailored garments. Lecture—Laboratory.

435 Advanced Textiles. 3 hours.
Prerequisites: Chemistry and HEFL 231.
Relation of fiber and fabric properties to serviceability; testing of fabrics with emphasis on interpretation of results in consumer choice. Individual problems. Lecture—Laboratory—Field trips.

436 Advanced Clothing Design. 3 hours.
Prerequisites: HEFL 130 or consent of instructor.
Involves interpretation and development of original designs through the media of flat pattern or draping. Lecture—Laboratory.

437 Fashion and Design Study Tour. 3 hours.
Prerequisite: Consent of instructor.
Travel to fashion and design centers to gain first-hand knowledge concerning design, production, marketing, and promotion of textiles, clothing and home furnishings. Lecture—Field trips

438 Textile and Clothing Merchandising II. 3 hours.
Prerequisite: HEFL 333.
The study and application of principles, techniques and practices of effective fashion merchandising. Includes problems in store design and display, supervision of retail establishment and fashion merchandising. Lecture—Laboratory.

480 User-Oriented Interior Design and Housing. 3 hours.
Prerequisite: Background in Interior Design or consent of instructor.
A study of methods of determining user needs so that resultant interior design and housing will satisfy those needs. Lecture—Field trips.

481 Lighting Design. 3 hours.
Prerequisites: Senior or graduate standing, background in Interior Design and Housing or consent of instructor. A study of lighting and wiring design for residences and the near environment. Emphasis directed to economics of installation and energy use, aesthetics, safety, and function of activity areas. Lecture—Field trips.

482 Residential Energy Resources and Problems. 3 hours.
Prerequisites: Senior or graduate standing, background in housing and household equipment, or consent of instructor.
Survey of issues and trends (past, present, and potential) to the roles and choices of space designers and consumers regarding design, selection, and use of housing, home furnishings, and appliances. Lecture—Field trips.

483 Household Equipment Design and Usage Factors. 3 hours.
Prerequisites: Senior or graduate standing, background in Interior Design and Housing, or consent of instructor.
An investigation of materials, finishes, and design of household equipment. Emphasis on achieving satisfaction of use, safety, and productivity in the home. Lecture—Field trips.

484 Space and Activity Analysis. 3 hours.
Prerequisites: HEFL 280 and 382 or consent of instructor.
Includes a study of space and activity analysis, concepts of time use and productivity, as well as family economics and selected environmental components relative to housing interiors. Lecture—Field trips.

520 Seminar in Interior Design and Housing. 3 hours.

521 Interior Ergonomics I. 3 hours.

522 Interior Ergonomics II. 3 hours.

531 Cultural Patterns of Dress. 3 hours.

533 Developing Fashion Merchandising Programs. 3 hours.

535 Textile Analysis and Interpretation. 3 hours.

536 Seminar in Textiles and Clothing. 3 hours.

537 Critique and Design of Investigations in Textiles and Clothing. 3 hours.

DEPARTMENT OF LIBRARY SCIENCE AND INSTRUCTIONAL MEDIA

HELM LIBRARY, ROOM 5A

Professor Vera Grinstead Guthrie, Head

Professors: J. Caskey, I. Simpson
Associate Professors: J. Sanders, R. Smith
Assistant Professors: E. Counts, M. Gwaltney, D. Twaddle
Instructor: N. Russell

The undergraduate courses in library science are organized to educate librarians for positions in elementary, junior and senior high schools; for positions of paraprofessional in college libraries or public libraries; to meet the prerequisites for graduate work in the field of library science and to provide any student with a general knowledge of the purposes and uses of libraries.

MAJOR IN LIBRARY SCIENCE

The major in library science (reference number 722) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree. Required courses are: LS IM 288, 401, 403, 406, 407, 408, 445, 446 and six hours of electives.

The student who seeks teacher certification must have twenty-six hours of specified education courses. These courses are: PSY 320, EDU 370, 340E, 403, 490S and Reading 220, 420 or 421 or 444.

The student who seeks teacher certification must have twenty-six hours of specified education courses. These courses are: PSY 320, EDU 370, 340E, 403, 490S and Reading 320, 420 or 421 or 444.

MINOR IN LIBRARY SCIENCE

The minor in library science (reference number 411) requires a minimum of 18/21 semester hours. Required courses are: LS IM 401, 406, 408 and 9/12 hours of electives chosen with the approval of a departmental advisor.

GRADUATE DEGREE PROGRAMS

The Master of Science with a major in Library Science and the Master of Arts in Education Degree with a major or a minor in Library Science are offered. See the Graduate College Bulletin for further information.

COURSES OF INSTRUCTION

101 Use of the Library. 1 hour.
Survey of library facilities available at Western. Explanation of the classification and arrangement of materials and a survey of reference materials. Required for freshmen.

231 Basic Photography. 3 hours.
See Department of Journalism.

288 Children's Literature. 3 hours.
Prerequisites: First three English courses. An introduction to picture books, traditional literature, poetry, fiction, biography, informational books and the development of a literature program in the elementary school.

341 Theories of Communication. 3 hours.
See Department of Communication and Theatre.

401 School Media Organization and Administration. 3 hours.
Organization and administration of all types of media for access and use; circulation and other library records; maintenance of the media collection and service to juvenile and adult patrons. Field trips may be required.

403 Books and Related Materials for Young People. 3 hours.
Principles of selection; aids in selection; reading interests; reading guidance; book talks; materials for information and recreation. Field trips may be required.

405 Recreational Reading, Listening and Viewing. 3 hours.
Popular reading and viewing interests of young adults in such areas as recreation, inspiration, self-improvement and information are emphasized. Opportunities for field trips to theatres, motion pictures, movies and television are provided.

406 Classification and Cataloging. 3 hours.
Study of classification, descriptive and subject cataloging and filing. Laboratory sessions in all areas covered.

407 Literature for Young Adults. 3 hours.
Reading interests of young adults including adult titles. Study in depth of several titles. Methods of working with young adults.

408 Reference and Bibliography. 3 hours.
Study of bibliographies, periodical indexes, indexes to literary forms, biographical dictionaries, dictionaries, encyclopedias, yearbooks, almanacs, directories, atlases and gazetteers and handbooks.

409 Selected Topics in Library Science.
1 to 3 hours.
Prerequisites: Permission of supervising faculty member.
Study of a selected problem under the supervision of a faculty member.

410 Storytelling. 3 hours.
Emphasizes storytelling in work with children. A review of the literature; criteria in selection of materials; practice in oral communication.

411 Creative Experiences for Elementary Children. 3 hours.
Provides students with experiences in creative expression, creative play acting, puppetry, creative writing experience, shadowplays, creative use of audiovisual equipment, materials, etc.

445 Audio-Visual Materials and Methods.
3 hours.
Instruction and laboratory experience in the operation and maintenance of audio-visual equipment. Theory relative to the best practices in audio-visual techniques.

446 Selection, Acquisition and Evaluation of Non-Print Material. 3 hours.
Prerequisite: 445G or permission of instructor.
Instruction and experiences to enable students to locate sources of supply for non-print materials and to identify and use appropriate selection aids. Acquisition procedures and evaluative techniques appropriate to non-print materials.

447 Instructional Television for Media Specialists. 3 hours.
Application and utilization of portable television equipment in the instructional process. Enrichment, motivational uses, types of distribution systems, budgeting, equipment operation and care, personnel requirements and classroom planning between the teacher and the media specialist. Emphasis is placed on laboratory experience.

463 Intercultural Communication. 3 hours.
See Department of Communication and Theatre.

470 Museum Procedures and Preservation Techniques. 3 hours.
See Center for Intercultural and Folk Studies.

475W Workshop in Library Science.
1 to 3 hours.
Special workshops designed primarily for the continuing education of practicing librarians.

Educ 490s Student Teaching—Library Science.
8 hours.
Prerequisite: Completion of 24 semester hours of library science.
Directed practice work given in area elementary and high school media center. See Department of Teacher Education.

GRADUATE COURSES

501 Organization and Administration of the Instructional Materials Center. 3 hours.

502 The Library in Society. 3 hours.

504 The Media Center and the Computer. 3 hours.

506 Cataloging of Non-Book Materials. 3 hours.

508 Advanced Reference. 3 hours.

509 Investigations in Library Science. 3 hours.

515 Government Publications. 3 hours.

518 Advanced Children's Literature. 3 hours.

519 Special Topics. 3 hours.

531 Media Facilities. 3 hours.

541 Seminar in Communication. 3 hours.

545 Instructional Graphics. 3 hours.

547 Instructional Technology. 3 hours.

549 Instructional Media Photography. 3 hours.

590 Field Experiences. 3 hours.

599 Thesis Writing. 3 to 6 hours.

Education 541 Seminar in School Media Programs. 3 hours.

DEPARTMENT OF MILITARY SCIENCE

ACADEMIC-ATHLETIC BUILDING—E. A. DIDDLE ARENA, ROOM 114

Lieutenant Colonel Robert A. Halbman, Professor of Military Science

Assistant Professors: Major B. Lambert, Major G. Lowe, Captain R. Roberts, Captain M. Ryan, Captain J. Ward
Instructors: SGM J. Eatherly, MSG C. McNulty, MSG J. W. Baker

Study of Military Science at Western Kentucky University dates back to 1918. Academic instruction is under the supervision of an active Army officer who serves as the Professor of Military Science. He is assisted by a staff of commissioned and non-commissioned Army officers. The military science curriculum is divided into two phases, basic and advanced, and is open to both male and female students on a voluntary basis.

MINOR IN MILITARY SCIENCE

Those students who complete both the basic and advanced phases may utilize Military Science as an academic minor (reference number 420). The minor in Military Science requires a minimum of 20/23 semester hours. Required courses are MS 100, 101, 201, 202 (or Hist 299), 300, 301, 400, 401. MS 210 may be substituted for MS 100, 101, 201, and History 299.

AREA OF EMPHASIS

Students may use Military Science as an Area of Emphasis option in the Administrative Service Degree program.

BASIC PHASE

The basic phase consists of a four-semester block of instruction normally taken during the freshman and sophomore years. During the freshman year, two hours of instruction are taken each week for two semesters. The emphasis in a number of the options in this phase is on adventure training and hands-on equipment instruction.

In the sophomore year, four hours of instruction are taken each week for one semester and three hours of instruction are taken each week for the other semester.

ADVANCED PHASE

The advanced phase is designed to commission officers for the United States Army, both active duty and reserve. Successful completion of the advanced phase at Western Kentucky University qualifies the student for a commission as 2nd Lieutenant in one of the following branches of the United States Army Reserve: Adjutant General Corps, Air Defense Artillery, Armor, Corps of Engineers, Field Artillery, Finance Corps, Infantry, Medical Service Corps, Military Intelligence, Military Police Corps, Ordnance Corps, Quartermaster Corps, Signal Corps, Transportation Corps, based on the student's choice and needs of the Army.

Students who are designated Distinguished Military Students may apply for a Regular Army Commission. Regular Army appointments are contingent upon selection by Department of the Army and subsequent designation of the student as a Distinguished Military Graduate.

The advanced phase consists of a four-semester course, normally taken during the junior and senior years, designed to qualify the student in any of the aforementioned branches. Advanced phase students are paid a tax-free subsistence pay of $100.00 per month for ten (10) months each year to be used as the student desires.

An advanced camp of six weeks' duration must be successfully completed by the student before that student is eligible for a commission. Advanced camp is normally attended during the summer break between the end of the junior and the start of the senior years.

While attending the advanced camp, students are paid at a rate equal to one-half a Second Lieutenant's base pay, or approximately $390.00 per month. Travel expenses to and from camp are provided at government expense. Uniforms, quarters, medical care and rations are furnished by the U.S. Army during the camp period.

The applicant for the advanced phase of instruction must:

1. Be a citizen of the United States or an alien student in a category approved by Department of the Army.
2. Be at least 17 years of age at the time of enrollment and not have reached 28 years of age at the time of appointment in the U.S. Army Reserve.
3. Be medically qualified in accordance with standards prescribed by Department of the Army.
4. Have satisfactorily completed the basic course or basic camp or have equivalent Military or ROTC training in lieu thereof. Veterans holding honorable discharges may automatically qualify for the advanced course without having taken the basic course.
5. Have a minimum overall academic average of 2.0.
6. Be selected by the Professor of Military Science.
7. Execute a written agreement with the government to complete the two-year advanced course training and attend one advanced ROTC summer camp (six weeks' duration) preferably at the end of the first year of the advanced course. Agree in writing to accept an appointment as a commissioned officer in the Army Reserve and serve a prescribed tour of duty if one is required.
8. Enlist in the grade of cadet in the U.S. Army Reserve Control Group. This enlistment does *not* entail participation in reserve unit training or meetings of any type.

FINANCIAL ASSISTANCE PROGRAM

Army ROTC offers a scholarship program designed to provide financial assistance to outstanding young men and women who may be interested in the Army as a career. Each scholarship provides for tuition, text books and laboratory fees in addition to pay of $100.00 per month for the duration of the scholarship.During the advanced summer camp,the pay is increased to one-half of a Second Lieutenant's base pay.

Scholarships may be awarded for periods of one, two, three or four years. Four-year scholarships are awarded to select high school applicants who plan to attend a university hosting Army ROTC. Applicants must apply prior to December during their senior year in high school.

Two- and three-year scholarships are awarded to selected applicants enrolled in freshman and sophomore military science who are qualified to enter the advanced phase.

The one-year scholarship is awarded to selected junior applicants who have enrolled in advanced ROTC and have demonstrated outstanding leadership potential.

Recipients of Army ROTC scholarships agree to serve on active duty as a commissioned officer for a four-year period.

PROFESSIONAL DEVELOPMENT ACTIVITIES

The following professional development activities are sponsored and maintained by the Military Science Department:

National Society of Pershing Rifles; National Society of Scabbard & Blade; The Rebelettes, a women's exhibition drill team; Special Forces, a counter-guerrilla training unit and University Varsity Rifle Team and the ROTC Rifle Team. Members of the Varsity Rifle Team, the Pershing Rifles, and the Rebelettes are not required to be enrolled in the Military Science curriculum.

COURSES OF INSTRUCTION

BASIC COURSES (MIL SCI I & MIL SCI II)

100 Introduction to Adventure Part I. 2 hours.
Introduces the student to the fundamentals of rifle marksmanship, survival activities and rappelling. (Fall)

100A Marksmanship Option. 2 hours.
Introduces the student to fundamentals of rifle and pistol marksmanship, range safety procedures and maintenance of weapons. (Fall)

100B Mountaineering Option. 2 hours.
Introduces the student to military mountaineering, to include emphasis on weather considerations, first aid and evacuation procedures inherent to mountain operations. (Fall)

101 Introduction to Adventure Part II. 2 hours.
Places increased emphasis on the three basic areas presented in MS 100 Introduction to Adventure Part I. (Spring)

101A Advanced Marksmanship. 2 hours.
Designed for students who have completed Basic Marksmanship or those who have had experience in competitive marksmanship events. Emphasis on advance proficiency with .22 caliber weapons, introduction and range firing of larger caliber weapons. (Spring)

101B Advanced Mountaineering. 2 hours.
Designed for students who have completed Basic Mountaineering. Emphasis will be concentrated on mountain free climbing and rappelling techniques. (Spring)

299 Introduction to Military History. 3 hours.
A survey of military history from the ancient period to the 20th Century, with emphasis on the development of tactics, strategy, weapons and generalship. (Spring)

201 Introduction to Tactics and Map Reading. 2 hours.
An introduction to the fundamentals of small unit tactics and the principles and fundamentals of map reading. (Fall)

202 Selected Studies in Military Science.
This course examines the career fields of the U.S. Army, lifestyle of a junior officer and the leadership challenges of the modern Army of the 1980's. (This course may be taken in lieu of Hist. 299.)

210 Military Science Practicum (Basic Camp). 6 hours.
Introduces military science in a comprehensive field course designed to be taken in lieu of MIL SCI 100, 101, 299 and 201 for students who were unable to complete these courses; emphasizes practical field application in a "hands-on" environment with leadership development. The camp is held at Ft. Knox during the summer. Students are provided room and board and paid approximately $450 for attending.

NOTE: There is no military obligation associated with any of the basic courses.

ADVANCED COURSES (MIL SCI III & MIL SCI IV)

300 Leadership and Management I. 3 hours.
Principles and techniques of leadership and management including the basic qualities of a leader, special problems of military leadership, delegation of authority and responsibility, span of control planning, coordination and decision making to include the psychological, physiological and sociological factors which affect human behavior.

301 Fundamentals and Dynamics of the Military Team I. 4 hours.
A review of the principles and fundamentals of small unit tactics and communications, with emphasis on the employment of the rifle platoon and the rifle company and their relation and use within the Infantry battalion, with emphasis on leadership technique for controlling small units.

400 Fundamentals and Dynamics of the Military Team II. 4 hours.
An understanding of command staff evaluation, organization and function, using the division staff as a model. Responsibilities in leadership will be stressed and practical experience afforded through performance as a cadet officer.

401 Leadership and Management II. 3 hours.
Analysis of the fundamentals of Army administration and military justice in the Armed Forces of the United States. Emphasis is placed on the obligations and responsibilities of an officer in the U.S. Army.

410 Military Science Practicum (Advanced Camp). 6 hours.
Develops leadership through an intensive six-week summer field course of rotating leader/command roles, practical experience in problem analysis, decision-making and troop-leading while providing in-depth coverage of technical and tactical subjects. Successful completion of the camp is required, however, receipt of University credit hours is at the option of the student. To receive the 6 hours credit, the student must register for this course prior to his/her departure for camp.

DEPARTMENT OF NURSING

ACADEMIC COMPLEX, E. H. CANON WING, ROOM 111

Professor Mary Hazzard, Head

Associate Professors: B. Jones, S. Jones, V. Lehmenkuler, I. Powers
Adjunct Professor: C. Kersting
Assistant Professors: B. Baughman, H.Brown, C. Bryant, K. Carr, J. Dobson, P. Dunham, D. Fernandez, J. Gibson, B. Strande
Instructors: M. Houchin, C. Long, N. Rascoe
Associate Instructors: D. Bussey, B. Cook, L. Clark

The Department of Nursing offers two years of lower division course work leading to the Associate of Science in Nursing degree, plus two years of upper division culminating in the Bachelor of Science in Nursing degree (B.S.N.). The graduate of the associate degree program is prepared specifically to practice nursing at a beginning level in care of the institutionalized ill, either acute or chronic. The graduate of the total four-year program will be prepared to function in either the clinical or community area on an increasingly independent basis.

ASSOCIATE DEGREE IN NURSING

The associate degree in nursing (reference number 272) requires a minimum of 64 semester hours and leads to an Associate of Science degree. Of those hours 31 semester hours are in nursing and the remainder in general education courses.

The associate degree program consists of four semesters of course work in nursing, supportive sciences and general education. Upon satisfactory completion of the program, the graduate is eligible to write the examination leading to licensure as a registered nurse.

Persons desiring to enter the associate of science degree level must fulfill the following requirements:

1. Applications must be filled out for admission to the University and to the Department of Nursing. (Applications must be obtained from the Department of Nursing.)
2. Acceptance by Western Kentucky University must be finalized before consideration of admission to the nursing program.
3. Applications to Nursing Department must be completed by March 15 for admission to the fall term. For spring admission, applications must be completed by Sept. 15.
4. The ACT examination should be taken far in advance of application periods since consideration for admission to the nursing program cannot be given until these scores are available.
5. Satisfactory physical and mental health determined by a recent medical examination prior to enrollment in a nursing course.
6. Personal interview with the Head of the Department if desired by the applicant or the Department Head.

The nursing curriculum may be completed in four semesters. Required courses in the A.S. nursing curriculum must be taken in the semester, or prior to the semester, in which courses are placed in the curriculum.

An overall grade point average of 2.0 is required for graduation. A minimum grade of "C" is required for each clinical nursing course. A grade point average of 2.0 must be earned for all nursing courses taken. If the nursing faculty considers a student to have health problems that negatively influence the individual's progress in the nursing program, the department may require certification by a medical doctor (authorized by the nursing faculty) as to the person's health fitness to continue in the nursing program.

Nursing courses consist of classroom instruction and planned laboratory experiences in the hospital or other health agencies. Students learn to apply principles from classroom learning through administering nursing care to selected patients under the guidance of nursing faculty.

BACHELOR OF SCIENCE IN NURSING

The area of concentration in nursing (reference number 586) requires a minimum of 63 semester hours and leads to a Bachelor of Science in Nursing.

The Baccalaureate Program for registered nurses consists of four semesters of course work in nursing, supportive sciences and general education leading to the Bachelor of Science in Nursing degree (BSN). The plan enables graduates of the lower-division program in nursing to progress from associate to baccalaureate degree without loss of time or credit. Graduates of other associate degree programs and graduates of diploma nursing programs who have established college credit for the courses in the current associate degree program at Western are also eligible for admission. College credit may be established by transfer credit, by taking the courses or by examination.

Admission is to fall semester only and the applicant must be officially accepted by the University before being considered for admission to the nursing program. Enrollment in the nursing program is limited and based on the availability of faculty and clinical resources.

In addition to the documents required for admission to the University, the following information must be submitted to the Department of Nursing before March 15 for consideration for admission to the next fall class. After March 15 applications will be considered as space is available.

1. Applications for admission to the Baccalaureate Degree Program in Nursing.
2. Post-high school transcripts (college, school of nursing, etc.).
3. Evidence of R.N. licensure in Kentucky (Spring semester graduates may be accepted pending receipt of passing State Board Scores by date of enrollment).

After acceptance into the program the following information must be submitted to the Department of Nursing:

1. Evidence of current professional liability insurance.
2. Medical record, including physical examination within the six months prior to admission.

A total of 132 semester hours are required for graduation including 64 hours of specified courses required for the Associate of Science in Nursing degree; plus (a) Nursing 301, 302, 401, 410, 412 and (b) Bio. 333, 433; Chem. 304; Math (Cat. D, 3 hours); H&S 340, 383; Anthro. 150; Hist. 119 or 120 and humanities electives (Category B, General Education Requirement) 12 hours.

COURSES OF INSTRUCTION

101 Nursing Fundamentals. 5 hours.
Prerequisite or Corequisite: BIOL 131, PSY 100, HE FL 167.
A study of basic health needs organized in terms of the knowledge and skills necessary for maintenance or restoration of an optimum healthful state for the individual. Emphasis is on those needs and problems common to all patients. Opportunity for application of knowledge and beginning development of skills is provided through guided nursing laboratory assignments. Lecture, three hours; laboratory, six hours. (Fall, Spring)

109 Parental-Child Nursing. 7 hours.
Prerequisite: NURSING 101.
Prerequisite or Corequisite: CHEM 109, PSY 199, ENG 101.
A functional approach to principles and skills necessary to assume nursing responsibilities during (a) the maternity cycle, (b) family adjustment to childbearing and childrearing with emphasis on normal growth and development and (c) family adjustment to the exceptional child. The family structure is used as a focal point. Applied course content includes prenatal, natal and post-natal care of the mother and newborn in a clinical setting. Agencies rendering pre-natal care, family planning services, exceptional child care and preschool education are also utilized. Lecture, four hours; laboratory, nine hours. (Fall, Spring)

224 Nursing in Physical and Mental Illness I. 8 hours.
Prerequisite: NURSING 109.
Prerequisite or Corequisite: BIOL 307-8.
The first course in a two-course sequence dealing with the study of health problems and nursing needs of adults and children. Integration of psychiatric, pediatric and general adult nursing is accomplished. Principles from the biological, physical, social and behavioral sciences are applied in selected clinical experiences. Lecture, four hours; laboratory, sixteen hours. (Fall, Spring)

225 Nursing in Physical and Mental Illness II. 8 hours.
Prerequisite: NURSING 224.
Prerequisite or Corequisite: ENG 102, SOC 110.
Continuation of Nursing 224 with application of nursing principles to increasingly complex nursing situations and to more diverse pathophysiological conditions. Lecture, four hours; laboratory, sixteen hours. Field experiences at Western State Hospital may be required. (Fall, Spring)

230 Nursing Roles and Responsibilities. 3 hours.
Prerequisite: NURSING 109.
A non-clinical course involving investigation of the heritage and development of professional nursing, establishment of appropriate relationships among organized health services and opportunities, privileges and responsibilities inherent in the role of the registered nurse. (Fall, Spring)

The thirty-one hours in nursing in the Associate Degree Program may be used as a minor if a student completes a major in some other field.

301 Advanced Nursing I. 5 hours.
Prerequisites or Corequisites: Anthropology 150, Biology 333.
This course introduces the concept of man as an open system adapting to change in his environment and the role of the nurse in assisting man to adapt to change. Emphasis is on the use of the nursing process as the foundation for professional nursing practice. The practicum will include opportunities to utilize the nursing process in providing care to individuals adapting to minimal change.

302 Advanced Nursing II. 5 hours.
Prerequisite: Nursing 301.
This course focuses on utilization of the nursing process to deliver nursing care to families adapting to minimal change. The family and community are viewed as open systems with interrelationships that affect health care. The role of the nurse in disease prevention and health promotion is studied with inclusion of specific coordinative advocacy and leadership skills. Practicum includes 1) opportunities to use the nursing process in the delivery of nursing care to families adapting to minimal change. Students will be expected to make home visits and coordinate nursing activities with the public health nurse, 2) observational visits with the school nurse, industrial nurse, public health nurses and other public health team members. The student will also visit the day care center for the elderly, family planning clinic and the speech and language clinic, 3) a community survey.

401 Advanced Nursing III. 9 hours.
Prerequisites: Nursing 301, 302.
Prerequisites or Corequisites: Biology 433, Pathophysiology II.
Corequisite: Nursing 410.
This course focuses on the utilization of the nursing process in the delivery of holistic nursing care to clients experiencing acute change. Emphasis is on the role of the nurse in assisting clients to restore health. Leadership, advocacy and coordinative skills are expanded. Practicum will include opportunities to care for clients experiencing acute change in secondary care settings and community settings.

402 Advanced Nursing IV. 9 hours.
Prerequisites: Nursing 301, 302, 410, 401.
Corequisite: Nursing 412.
This course focuses on the utilization of the nursing process in the delivery of nursing care to clients who are experiencing long-term change that has altered their health status. Emphasis is on the leadership, coordinative and advocacy functions of the nurse's role in health promotion, maintenance and rehabilitation. Practicum will include experiences that provide opportunities for the student to perform these functions with individuals, families and selected groups in hospitals, homes and other community settings.

410 Introduction to Nursing Research. 3 hours.
Prerequisites: Biostatistics, 383.
Corequisite: Nursing 401.
A study of the research process and its application to nursing practice. Emphasis is placed on critical analysis of selected research in nursing and evaluation of research findings.

412 Senior Seminar. 1 hour.
Prerequisite: Nursing 410.
Corequisite: Nursing 402.
A study of issues and trends significant to the nursing profession as a health care provider.

ALLIED HEALTH

OFFICE OF ALLIED HEALTH PROGRAMS
ACADEMIC COMPLEX, ROOM 211

Associate Professor J. Glenn Lohr,
Coordinator of Allied Health Programs

The Office of Allied Health operates as a component of the Office of the Dean of the College of Applied Arts and Health. The primary functions of this office encompass improvements in the quality of the allied health curricula, development of new allied health programs, improving coordination among programs and synchronizing other aspects of allied health programs offered by the University including: advisement, recruitment, continuing education and career advancement programs in allied health.

Allied Health is defined as all the professional, technical and supportive workers in patient care, public health and health research. Allied Health professions encompass a wide distribution of personnel with various levels of health education and training which enables them to function as a member of the health care team.

Allied Health programs at Western include: Community Health, Medical Technology, Health Education, Dental Hygiene, Dietetics, Health Care Administration, Allied Health Education, Medical Secretary, Medical Record Technology, Radiologic Technology and Communication Disorders. Details on each of these programs may be found in the appropriate sections of this catalog.

Undecided students with possible interest in a health career may contact the Office of Allied Health. The Office maintains an up-to-date file on health careers along with the educational requirements and locations of training programs.

The following course has been especially developed for those students who are interested in a health career but are undecided about a specific discipline. It is also useful as an introduction to the health professions for those students beginning their studies in a specific discipline.

COURSES OF INSTRUCTION

Allied Health

100 Introduction to the Health Professions. 3 hours.
Prelude to actual acceptance into some health professions. Emphasis is placed on awareness of self, identification of health professions, history of Medicine, professionalism and medical ethics, and decision making. Field trips may be required.

ALLIED HEALTH EDUCATION

Science & Technology Hall, Room 408C
Advisor: Norma Jean Schira

The Allied Health (Health Occupations) Teacher Education program is designed to prepare credentialed health practitioners to teach health occupations in the secondary and post-secondary schools. The program is designed to meet the requirements for secondary and vocational teacher certification.

The Health Occupations teacher is a member of the local school faculty and assumes the task of preparing students for entry and advanced skill level positions in the health field. These tasks include teaching in the classroom and health agencies, recruiting and selection of students, supervising of students on the job and in clinical situations and supervising of student organizations in health occupations.

The requirements of 24 semester hours for vocational teacher certification include 4 hours in Vocational Education Foundations, 4 hours in Vocational Education Curriculum and Course Instruction, 4 hours in Methods of Teaching and 2 hours in research and electives.

For further information regarding the program in Allied Health (Health Occupations) Teacher Education, contact Dr. Norma Jean Schira, Health and Safety Education or see Department of Health and Safety.

COURSES OF INSTRUCTION

ALLIED HEALTH TEACHER EDUCATION COURSES
(Health Occupations Education)

479 Research and Development in Health Occupations Education. 3 hours.
An exploration of current major concerns and developments in health occupations education. Emphasis is on methods and procedures of inquiry, review of literature and individual research.

480 Seminar in Health Occupations Education. 2-4 hours.
Certain critical problems in health occupations education will be identified, analyzed and discussed by seminar members.

482 Clinical Teaching Techniques in Health Occupations Education. 3 hours.
Attempts to develop an understanding of the techniques and methods of effective clinical instruction in health occupations education will be undertaken.

483 Curriculum Planning in Health Occupations Education. 3 hours.
The foundations of curriculum development are explored. Emphasis is given to the process of curriculum planning and design as related to health occupations education.

484 Instructional Materials in Health Occupations Education. 3 hours.
A comprehensive analysis of multi-media instructional materials available for use in health occupations education programs, sources, selection and use will be provided.

485 Methods of Teaching Health Occupations Education. 3 hours.
Attempts to develop an understanding of the basic methods and techniques of effective instruction in health occupations education will be undertaken.

HEALTH COURSES

430 Orientation to Health Care Systems. 3 hours.
This course is concerned with an investigation of health care systems of the past, present and future. Emphasis will be placed on the role of the allied health professions in the health care picture.

432 Health Occupations (Health Careers). 3 hours.
Emphasis in this course is placed on a survey of the broad scope of health occupations. In addition, health manpower trends and criteria to be applied in career selection are studied.

433 Seminar in Health Occupations. 2-4 hours.
An in-depth study of selected health occupations will be conducted. Through individual research on-the-job observation occupations will be analyzed and discussed.

COMMUNICATION DISORDERS

ACADEMIC COMPLEX, Room 118

Associate Professor Stan S. Cooke, Director
Assistant Professors: F. Kersting, D. Rivers

Students interested in speech pathology have an opportunity to select one of two alternatives. They may select either a program with teacher certification for work in the public schools or a pre-professional non-teacher certification program designed for graduate study in speech pathology.

Teacher Certification Program—Students must complete a baccalaureate degree program which includes requirements for general education, pre-professional education and an area of concentration in Exceptional Children — Speech and Communication Disorders (reference number 595). For specific requirements, refer to the Department of Teacher Education.

Pre-professional Non-Teacher Certification Program—Students must complete requirements for general education, a major in speech and a minor approved by a speech pathology advisor in order to satisfy the 128 semester hour requirement which leads to the Bachelor of Arts degree. Students selecting this option should complete a major in speech with a minimum of 33 semester hours. Thirty-three hours are required as follows: Speech Communication 145, Communication Disorders 347, 405, 481, 482, 483, 484, 485, 486, 487, and 490.

All undergraduate students are required to fulfill program requirements of at least 150 clinical clock hours of experience in working with people having communication disorders. The undergraduate program is designed to academically and clinically train students to work in appropriate community facilities and to prepare pre-professional students for graduate study in speech pathology.

COURSES OF INSTRUCTION

COMMUNICATION DISORDERS

280 Survey of Speech Pathology and Audiology. 1 hour.
This course is designed to introduce prospective students of Speech Pathology to the general areas of prevention, identification, diagnosis, evaluation and treatment as they relate to the management of communication disorders. (Every Semester)

290 Introduction to Clinical Experience.
1-2 hours.
This course is designed to provide students of speech pathology with opportunities to observe the clinical management of communication disorders. (Every Semester)

347 Bases of Speech. 3 hours.
A general overview of the social, physical, physiological, neurological, phonetic, linguistic, psychological, genetic and semantic bases of speech. (Fall,On Demand)

381 Management of Communication Disorders in the School. 3 hours.
A study of diagnostic instruments and therapy programs for the school-age child, scheduling and program planning procedures, and pertinent federal, state and local legislation. (Spring)

405 Phonetics. 3 hours.
A study of speech sounds, their production and their acoustic properties. (Fall)

481 Introduction to Speech Pathology.
3 hours.
An introduction to the field of speech pathology dealing with the development of speech and language, the cause and treatment of the simpler deviations from normal speech and language. The course will deal with identification of the more common speech problems and suggestions for the remedy of these problems. (Fall, On Demand)

482 Audiology. 3 hours.
A review of basic speech science, ear anatomy and physiology and etiologies as well as training in auditory threshold testing by air conduction, bone conduction and speech (Spring)

483 Articulation Disorders. 3 hours.
A study of the etiology, evaluation and management of articulatory disorders in children and adults. (Fall, On Demand)

484 Speech Anatomy and Physiology. 3 hours.
Designed to help students identify the structures and functions which comprise the speech mechanism. The relation of this mechanism to the production and development of speech and language will be treated. (Fall, On Demand)

485 Diagnostic Procedures for Communication Disorders. 3 hours.
An introduction to the theory and utilization of the screening and diagnostic techniques most common to the profession of speech pathology. This course will provide the student with an over-view of evaluation procedures for all communicative dysfunctions. (Spring, On Demand)

486 Language Disorders. 3 hours.
Identification, diagnosis, evaluation and treatment techniques to be used with language disorders—specifically with aphasia and delayed language problems. (Summer)

487 Aural Rehabilitation. 3 hours.
A study of the terminology used in aural rehabilitation, diagnostic procedures including early identification and reflex testing, as well as habilitation-rehabilitation programs including manual communication, cued speech, verbo-tonal method and total communication. (Spring)

488 The Stuttering Child. 3 hours.
A study of the etiology, diagnosis, and treatment programs for stuttering in children.

489 Geriatric Communication Disorders. 3 hours.
A study of the causes, symptoms and treatment of speech, language, and hearing disorders in the aged population.

490 Clinical Practicum 1 hour. (Maximum 3)
Supervised clinical experience, including experience with individual and group therapy. (Every Semester)

502 Motor Speech Disorders. 3 hours.

503 Advanced Diagnostic Procedures in Speech Pathology. 3 hours.

504 Seminar in Language Disorders of Childhood. 3 hours.

505 Communication Disorders of Cleft Palate and Cerebral Palsy. 3 hours.

506 Dysfluency. 3 hours.

507 Dysphasis. 3 hours.

508 Voice Disorders. 3 hours.

509 Speech Science. 3 hours.

510 Seminar in Speech Pathology. 3 hours.

511 Neuropathologies of Speech. 3 hours.

580 Diagnostic Procedures in Speech Disorders. 1 hour.

590 Graduate Clinical Practicum. 1-6 hours.

MEDICAL RECORD TECHNOLOGY

SCIENCE AND TECHNOLOGY HALL, ROOM 415

Leigh Palmer, Director

The medical records technician curriculum is an associate degree program accredited by the American Medical Association and the American Medical Records Association. It is designed to prepare individuals to work with health records in hospitals, ambulatory health care facilities, industrial clinics, state and federal health agencies, skilled nursing facilities, and insurance companies. The curriculum may be completed in two years.

A medical record technician may be director of the medical record department in a small hospital or may specialize in a particular phase of work in the medical record department in a large institution. The medical record technician may work closely with physicians, nurses, hospital administration, attorneys, insurance companies, and employees of many departments within the institution.

The medical record technician program will educate the student in the organization and technical analysis of health records; the assigning of international code numbers to diseases, operations and procedures; compiling administrative and health statistics; transcribing medical reports; preparing health data for computer processing; releasing health information to properly authorized individuals; taking health records to court; and maintaining special registries.

For additional information regarding the Medical Record Technology program, please contact the Program Director. Enrollment in the program is limited; students should apply for admission to both the University and the Medical Record Technology program.

COURSES OF INSTRUCTION

MEDICAL RECORD TECHNOLOGY

100 Basic Health Record Principles. 3 hours.
An introductory course to familiarize the student with health records of various institutions, the origin of clinical information and documentation standards. The students will acquire skills in securing, identifying, numbering, storing and retrieving health information (qualitative and quantitative analysis). Laboratory and clinical practice required.

110 Fundamental Health Information Systems. 4 hours.
Second in a series of courses related to health records including procedures classification systems, nomenclatures and records for other facilities (not acute care) Includes lecture, lab and clinical practice.

220 Health Data Assessment and Presentation. 3 hours.
In this course emphasis will be placed on acquiring basic knowledge and skills in health statistics and application of the knowledge to manual and automated health information systems. Quality assurances methodology will also be investigated.

221 Organization and Administration of Health Records. 3 hours.
An advanced course in a series of courses related to health records in which the organization and responsibilities of the medical staff are studied and the policies and procedures of accrediting, approving, licensing and certifying agencies are reviewed. Lecture, lab and clinical experience.

229 Health Information Processing and Advanced Nosology. 3 hours.
An advanced course in which the Medical Record student acquires the cognitive, affective and psychomotor skills for health information processing and the indepth complexities of the language of medicine. Lecture and lab required.

230 Seminar and Field Experiences. 6 hours.
Final course in a series of courses related to health records, latest trends in health care delivery and their effect on medical records, management and supervision and a final opportunity to practice all the cognitive psychomotor and affective theory, skill and behavior in an extended field experience. Lecture, lab and clinical affiliation required.

231 Legal Aspects of Health Records. 2 hours.
Advanced course relating concepts and principles of law, the health record as a legal document, confidential communication, consents and authorization release of information and current trends in health legislation. Includes lecture, lab and clinical practice.

MEDICAL TECHNOLOGY

Academic Complex, Room 208
Advisor: Michael Rush

This program combines a minimum of three years (92 semester hours) of college work at Western Kentucky University with a minimum of 12 calendar months (36 semester hours) of satisfactory clinical training in a school of medical technology. This school must be approved by the Council on Medical Education and Hospitals of the American Medical Association, by the American Society of Clinical Pathologists and by this institution. One must meet all of the general education requirements for the Bachelor's Degree at Western before admission to the school of medical technology. On the satisfactory completion of the course requirements in medical technology, the Bachelor of Science Degree will be awarded by Western. Persons who then take and pass the national registry examination are certified as MT(ASCP).

This program is designed to prepare students to become medical technologists in hospitals and clinics and in the offices of physicians.

Western is affiliated with the following hospital schools of medical technology: St. Anthony Hospital, Louisville, Kentucky; St. Mary's, Evansville, Indiana; Vanderbilt-Veterans and Baptist Hospital, Nashville, Tennessee; Lourdes Hospital, Paducah, Kentucky; Cumberland, Cookeville/Nashville, Tennessee and Owensboro-Daviess County Hospital, Owensboro, Kentucky.

In addition to such clinical courses as microbiology, clinical chemistry, urinalysis, hematology, blood banking and serology, the area of concentration in medical technology includes Biology 148-9, 158-9, 309-10, 328, 330-1, and Chemistry 120-1, 222-3, 330 and 314. Other requirements include Physics 231 and 232 and either Math 118 or Math 100 and 115.

More detailed information concerning the general education requirements and other particulars can be obtained from the advisor. The undergraduate degree program must be filed three semesters before leaving Western. Usually, this means filing it during the second semester of the sophomore year. Students should also consult the advisor regarding applying for admission to the hospital schools. Application is made 9 to 12 months in advance of the beginning date for the hospital school. Admission to the hospital schools is on a competitive basis, and maintenance of a good academic standing is important. Students are required to have liability insurance for their clinical year.

RADIOLOGIC TECHNOLOGY

SCIENCE & TECHNOLOGY HALL, ROOM 307B
Advisor: Henry Baughman

This curriculum is designed to allow the Accredited Radiologic Technologist to complete the requirements for an associate degree in radiologic technology. This

program is limited to students who have completed an accredited program in radiologic technology.

The program is specifically designed to provide increased employment opportunities for radiologic technologists. Those completing the Associate of Science Degree will have more job mobility.

Students who successfully complete a technical-clinical program in Radiologic Technology and pass the examination required by the American Registry of Radiologic Technologists will be awarded a block of 39 credit hours toward an Associate of Science Degree in Radiologic Technology. This degree may be utilized as a minor in the completion of a Baccalaureate Degree.

To complete the Associate of Science Degree in Radiologic Technology, students must fulfill the following requirements:

A. The student must pass the examination given by the American Registry of Radiologic Technologists.
B. A minimum grade point average of 2.0 must be maintained
C. A minimum of 12 credit hours of work must be taken under the auspices of Western Kentucky University, with at least six hours earned as residence credit.
D. A minimum of 25 college credit hours must be earned. Required courses are: English 101; Psychology 250; Health and Safety 100, 344; Business Education and Office Administration 101 or 201 and Sociology 295. Elective courses are: (8-9 hours) Health and Safety 171, 290, 381; English 207; Business Education and Office Administration 316, 350; Humanities (select one three semester hour course) and Physics (with advisement, one three semester hour course).

PRE-PROFESSIONAL PROGRAMS

PRE-CHIROPRACTIC

ACADEMIC COMPLEX, ROOM 208
Advisor: Michael Rush

A program is provided for students desiring to enter colleges of chiropractic. The program contains the courses outlined by the Kentucky Association of Chiropractors for the two years of college work required by the colleges of chiropractic in various states. The following courses are recommended: English, 12 semester hours; chemistry, 8 semester hours; biology, 8 semester hours; math, 3 semester hours; speech, 3 semester hours; physics, 8 semester hours; psychology, 6 semester hours; economics, 3 semester hours; government, 3 semester hours; history, 3 semester hours; and health, 3 semester hours.

PRE-DENTAL

ACADEMIC COMPLEX, ROOM 215
Professional Advisor: A. F. Godby

THOMPSON COMPLEX, NORTH WING, ROOM 307
Academic Advisor: Lowell W. Shank

Students planning a career in dentistry should follow the pre-dental curriculum at Western which is basically the same as that outlined for pre-medical students.

It is recommended that students planning a dental career complete the entire four-year curriculum and receive the Bachelor of Science Degree before entering a dental college. Students so desiring may complete the first three years of pre-dental curriculum, substituting a year of satisfactory work in dental college for the fourth year, and receive the Bachelor of Science.

PRE-MEDICAL

THOMPSON COMPLEX, NORTH WING, ROOM 307
Advisor: Lowell W. Shank

The pre-medical curriculum has been developed over the years with two prime objectives in mind. The first objective is to provide the undergraduate student with an academic background which will enable him to succeed in the medical school of his choice. The second objective is to provide the proper scholastic credits for obtaining the Bachelor of Science degree after four years of study.

During the first two years of undergraduate work the pre-medical student should complete the majority of the basic science courses which constitute the minimal prerequisites for entrance into medical school. All science courses require laboratories and are as follows:

Biology 148, 158, 318; Chemistry 120, 222, 330, 340, 342; Mathematics 118, 126; Physics 231 and 332.

In addition to the basic science courses, the following subjects should be taken during the freshman and sophomore years:

English 101 and 102; Library Science 101; Physical Education 101 and 102. Electives in Humanities and in Social and Behavioral Studies.

During the junior and senior years students with the help of the pre-medical advisor, should plan to develop major and minor areas of interest in addition to completing the general education requirements for a degree.

It is recommended that students planning a medical career complete the entire four-year curriculum and receive the Bachelor of Science degree before entering a medical college. Students so desiring may complete the first three years of the pre-medical Curriculum substituting a year of satisfactory work in medical college for the fourth year and receive the Bachelor of Science degree.

PRE-OPTOMETRY

ACADEMIC COMPLEX, ROOM 218
Advisor: William E. Neel

Students may fulfill pre-optometry requirements at Western Kentucky University and become eligible to submit applications for admission to any of the thirteen optometry schools within the United States. These schools vary in their pre-optometry requirements. Students should decide on the college of optometry to which they plan to submit an application for admission and arrange their schedules in accordance with the requirements of that particular school. This information is available from the Pre-Optometry Curriculum Advisor. The professional optometric program requires four years of study in a school of optometry. This is in addition to the two or more years of pre-optometry requirements. Applicants to all of the optometry schools are required to take the Optometry College Admission Test. Application forms for this test are available in the Pre-Optometry Advisor's Office.

The Kentucky Council on Higher Education, through an agreement with the Southern Regional Education Board, Atlanta, Georgia, sponsors a contractual optometric training program at the College of Optometry,

University of Houston; the School of Optometry, University of Alabama; and Southern College of Optometry, Memphis, Tennessee. The program is open only to students who are legal residents of Kentucky and have completed the pre-optometry curriculum. The financial aid to students consists of the approximate difference in the cost of in-state and out-of-state tuition at the optometry schools for not more than four academic years. Once approved the student must exhibit satisfactory progress toward completion of the prescribed four-year curriculum and apply to the Council each year for continuation in the SREB program. However, an approved student making normal academic progress is re-certified annually upon application. This program provides for not more than two new students each year at the University of Alabama, five at the University of Houston and eight new students each year at Southern College of Optometry.

Applicants should apply directly to the Dean or Director of Admissions at the college or school of optometry for admission to the Fall class not later than January 1 of the same year. He should also file an application with the Council on Higher Education for certification to participate in the Southern Regional Education Board program by February 1 of the same year. Both acceptance for admission by the university and certification by the Council are required for Kentucky student aid in the program. The optometry schools reserve the right to select students acceptable to the program.

Since the program is designed to provide funds (or financial support) for a limited number of students each year at the three schools of optometry and is funded accordingly by the General Assembly, Kentucky students planning careers in optometry should not limit their plans for training to these institutions. Kentucky students in optometry are presently enrolled and will continue to enroll at several excellent schools and colleges other than the University of Houston, the University of Alabama and Southern College of Optometry. This program of student assistance, however, is limited to these three institutions.

The courses listed below will fulfill the pre-optometry requirements at the University of Houston, College of Optometry:

English 101, any six semester hours in sophomore level Eng. Lit. or above; Chemistry 120, 121, 222, 223, 340, 341; Mathematics 118, 120, 220; Physics 231, 207, 232, 208; Biology 148, 149, 207, 208; History 140, 141; Government 110 and Psychology 201.

An additional twelve semester hours in core distribution electives must be completed to fulfill requirements for a B.S. degree. Optometry students at the University of Houston are required to earn a B.S. degree in addition to the O.D. degree, if they have not yet received a bachelor's degree. The two-year pre-professional program combined with the first two years in the optometry school curriculum form the program for the B.S. degree.

The courses recommended below will fulfill the pre-optometry course requirements at the University of Alabama, School of Optometry:

English 101, 183; Chemistry 120, 121, 222, 223, 314; Mathematics 118, 120; Physics 231, 207, 232, 208; Biology 148, 149, 195, 300; Psychology 201, 100 and 199 or 361. Social & Behavioral Sciences—(Six hours in addition to the above psychology requirement). These hours may be taken in sociology, economics, anthropology, history, political science or psychology.

Applicants must have completed 90 semester hours (three years of college education).

The courses listed below will fulfill the pre-optometry requirements at Southern College of Optometry:

English 101, 102; Chemistry 120, 121, 222, 223; Mathematics 118; Physics 231, 207, 232, 208; Biology 148, 149, 207, 208, 258, 259 and Psychology 100.

Electives to total 60 semester hours.

PRE-PHARMACY

ΓHOMPSON COMPLEX, NORTH WING, ROOM 321
Advisor: David R. Hartman

Students planning a career in pharmacy may follow a pre-pharmacy curriculum at Western for two years, then transfer to a school of pharmacy for the remaining three years of training.

The following curriculum contains the courses required for admission to the University of Kentucky School of Pharmacy. The courses required by other schools of pharmacy are much the same; however, the student should investigate the requirements of the school to which that student plans to transfer in order that every requirement may be included in the pre-pharmacy program.

The Carpenter-Dent Trust Fund offers scholarships to eligible pre-pharmacy students who are residents of Allen, Simpson or Warren County. For further information, contact Dr. Hartman.

Freshman year: Biology 148, 149, 318, 319; Chemistry 120, 121, 222, 223; Math (100, 105, or 118) and 126; English 101, 102; electives.

Sophomore year: Biology 307, 308; Chemistry 340, 341, 342, 343; Physics 231, 207, 332, 208; Economics 202, 203 (may substitute geography, sociology, or government for 203); plus electives (should include two courses in humanities, two in history or two in behavioral sciences) to make a total of sixty-six semester hours credit.

PRE-PHYSICAL THERAPY

ACADEMIC COMPLEX, ROOM 211
Advisor: J. Glenn Lohr

For students planning to enter the field of physical therapy, a pre-physical therapy program consisting of a two-year series of courses is offered. Completion of the requirements of this program will satisfy admission requirements for the physical therapy curriculum of the University of Kentucky, as well as physical therapy programs at most other institutions. Students are accepted into the two year professional program at the University of Kentucky on a competitive basis.

A minimum of 64 credit hours and a grade point average of 2.5 is essential for admission to a physical therapy program.

The following curriculum contains courses required for admission at the University of Kentucky. Students planning to transfer to a different physical therapy program should study the specific requirements and discuss them with the advisor listed above.

Due to the competitiveness of physical therapy programs, a student will be advised to apply to five programs for transfer in the junior year.

The following courses are required for pre-physical therapy majors: English 101, 102; Chemistry 105, 106, 107, 108; Physics and Biophysics 231, 207, 232, 208; Biology 148, 149, 195; Psychology 100, 199; Physical Education 101, 102; Health and Safety 290 and 25 hours of general studies courses. Recommended electives include Health and Safety 383, Biology 321 and Health and Safety 171.

College of Arts and Humanities

Dr. Robert H. Mounce, Dean
Ivan Wilson Center, 200

The Potter College of Arts and Humanities provides work in the traditional humanistic disciplines and in the visual and performing arts. It is made up of the departments of Art, Communication and Theatre, English, Folk and Intercultural Studies, Foreign Languages, History, Journalism, Music, and Philosophy and Religion. A faculty of more than 150 full-time teachers (plus a number of part-time support personnel) carry out the instructional program of the college.

The name of the college was taken from the Potter College for Young Ladies established in Bowling Green in 1887. For a time the present college was known as the Potter College of Liberal Arts (1965-72).

Majors and minors are offered in each of the nine departments. Graduate degrees are offered by most of the departments in cooperation with the Graduate College. Information about the programs is contained in the present catalog. For further information about a specific course of study, write to the appropriate department head or to the dean of the college.

The college of arts and humanities takes as its basic area of scholarly concern the historical existence of man, the expressions of his aesthetic sensitivities, and his ultimate concerns. It seeks to make students aware of their cultural heritage and to instill an appreciation for that which man has declared to be the finest expressions of his compulsion to create.

Work in the arts and humanities prepares a student to enter into a wide range of professional occupations for which a basic understanding of man as man is a prime requisite.

DEPARTMENT OF ART

IVAN WILSON CENTER FOR FINE ARTS, ROOM 441

Professor Joseph W. Gluhman, Head

Professors: C. Forrester, E. Monroe, N. Peterie, W. Stomps, L. Wallace, W. Weaver
Associate Professors: H. Custead, L. Fernandez, J. Oakes, I. Schieferdecker
Assistant Professors: M. Klein, M. Taylor
Instructor: L. Notheisen

The Department of Art offers an Area of Concentration program leading to the Bachelor of Fine Arts Degree, and an Area of Concentration in the Bachelor of Arts Degree program leading to secondary teacher education certification. A Commercial Art Option is available under the BFA degree program. The department also offers an undergraduate art minor which is not certifiable for secondary teachers and a graduate major and minor under the Master of Arts in Education program.

The department offers an art minor which is certifiable for Elementary Education.

The areas for the above programs are intended to train creative artists as elementary and secondary teachers and to provide a sound foundation for those considering commercial or fine art as a profession.

In addition, the departmental offerings contribute to the general education requirements of all students in the area of humanities. Courses are provided to fulfill the art requirements of all students in the Elementary Education Area.

At the conclusion of the undergraduate program, each student in the BA or BFA program (excluding the commercial art option) is encouraged to have an exhibition of work for review by the art faculty.

The Art Department reserves the right to retain examples of student works.

All majors and minors are required to work closely with their faculty advisors in planning their courses of study.

The Potter College of Arts and Humanities maintains a gallery program presenting a variety of historical and contemporary exhibits, as well as special exhibits of faculty and student work. A Selected Senior Exhibition is scheduled annually under the direction of the Art Department faculty.

AREA OF CONCENTRATION IN ART

An area of concentration in art (reference number 514) requires a minimum of 63 semester hours and leads to a Bachelor of Fine Arts degree. The sixty-three hours must include Art Survey—6 hours, Design—3 hours, Drawing—12 hours, Basic Studio—12 hours, Major Studio—9 hours, Aesthetics—3 hours, Art History—6 hours, Art Elective—12 hours.

AREA OF CONCENTRATION IN ART—COMMERCIAL ART OPTION

An area of concentration in art—commercial art option (reference number 515) requires a minimum of 60 semester hours and leads to the Bachelor of Fine Arts degree. The sixty hours must include Design—3 hours, Art Survey—6 hours, Art History—3 hours, Drawing—12 hours, Basic Studio—12 hours, Commercial Art Block—21 hours, Art or Commercial Art Elective—3 hours. Commercial Art electives are selected from courses offered by the Department of Art, Communication and Theatre, Home Economics, Industrial Education, and Journalism.

AREA OF CONCENTRATION IN ART EDUCATION

An area of concentration in art education (reference number 516) requires a minimum of 54 semester hours and leads to a Bachelor of Arts degree. This program is a certifiable area in the teacher certification program. The fifty-four hours required include Art Survey—6 hours, Art History—3 hours, Drawing—12 hours, Basic Studio—15 hours, Studio Major—6 hours, Art Education—3 hours, Aesthetics—3 hours, Art Electives—3 hours.

MINOR IN ART

The minor in art (reference number 312) requires a minimum of 27 semester hours in art. The twenty-seven hours include Art Appreciation or Art Survey—3 hours, Design—3 hours, Drawing—9 hours, Painting—3 hours, Art History—3 hours, Studio Elective—6 hours, other than Painting. This minor also may be used as a unit added to the Elementary Education Area in training of art teachers for the elementary schools. (It may not be used for Secondary Education certification. Elementary Education Majors earning the minor in art are required to take 310 or 311.)

GRADUATE DEGREE PROGRAMS

The Department of Art currently offers a graduate major of 18-21 semester hours in art and a graduate minor of 12-15 hours in art for students pursuing the Master of Arts in Education degree. The remaining credits, to total 30 semester hours, are required to be taken in professional education courses including an art education seminar. These programs are designed for art teachers in the public schools who are working toward the Kentucky Standard High School Teaching Certificate.

COURSES OF INSTRUCTION

100 Art Appreciation. 3 hours.
Partial fulfillment of the humanities requirement for all students. The expressive, formal and technical components of art are explored in a manner designed to provide the student with a more complete understanding and appreciation of art. (Fall, Spring, Summer)

105 Art Survey. 3 hours.
A selective chronological survey of the major visual arts from Prehistoric through Gothic times.

106 Art Survey. 3 hours.
A selective chronological survey of the major visual arts from Renaissance through Modern times.

300 The History of Architecture and Sculpture During the Middle Ages. 3 hours.
Prerequisite: Art 105.
This course surveys architecture and sculpture during the Middle Ages in France, England and Germany. (Once each year)

301 The History of Painting During the Middle Ages. 3 hours.
Prerequisite: Art 105.
The emphasis in this course is on the iconographical contact of painting of France, England and Germany during the Middle Ages. (Once each year)

302 Nineteenth Century Art. 3 hours.
Prerequisite: Art 106 or permission of instructor.
Major art movements from Neoclassicism to Art Nouveau are considered in terms of their general cultural milieux. (Fall)

303 Twentieth Century Art. 3 hours.
Prerequisite: Art 106 or permission of instructor.
The stylistic and technical innovations of major art movements from 1900 to the present time are considered in terms of their general cultural milieux. (Spring)

304 Oriental Art—India. 3 hours.
Prerequisites: Art 105, 106, or permission of instructor.
A chronological survey of the major periods of the Art of India, referring to impetuses of Buddhism and Hinduism and directing attention to Indian Art's influence on the art of Southeast Asia, China and Japan. (Fall)

305 Aesthetics. 3 hours.
A study of important philosophies and theories of art and of the principles of art criticism. This course is cross-listed as Philosophy 305 and may be taken for art or philosophy credit. (Fall, Spring)

306 Far Eastern Art. 3 hours.
Prerequisite: Art 105, 106 or permission of instructor.
A study of the major periods and art objects of China and Japan, emphasizing their indigenous styles and the influence of Buddhist thought and art. (Spring, every other year)

401, 401G Art of the Italian Renaissance. 3 hours.
Prerequisites: Art 105, 106.
This course analyzes the architecture, sculpture and painting of the Italian Renaissance with emphasis on the examination of selected examples. (Once each year)

402, 402G American Architecture—Nineteenth and Twentieth Centuries. 3 hours.
Prerequisite: Art 106.
This course studies American architecture during the nineteenth and twentieth centuries as an expression of cultural history. (Spring, every other year)

400 The History of Architecture and Sculpture During the Middle Ages. 3 hours.

501 The History of Painting During the Middle Ages. 3 hours.

505 Seminar in Modern Art. 3, 6, or 9 hours.

506 Investigations in Art History. 3, 6, or 9 hours.

ART EDUCATION

310 Art Education in the Elementary School. 4 hours.
Prerequisite: Junior standing.
A requirement for elementary education majors, this course studies the materials, methods and functions of art in the elementary curriculum through the use of lectures, readings, observations and selected studio problems. (Fall, Spring, Summer)

311 Public School Art. 4 hours.
Prerequisites: All of the art foundation courses plus all basic studios and junior standing.
A requirement for students majoring in art education, this course deals with the philosophical foundations and objectives methods, lesson unit development are stressed. Laboratory experiences in design, production and audio-visual resources.

476 Education—Materials and Methods in Art Education. 3 hours.
See Department of Teacher Education for prerequisites and course description. (Fall, Spring)

490 Education—Student Teaching in Art. 8 hours.
See Department of Teacher Education for prerequisites and course description. (Fall, Spring)

511 Investigations in Art Education. 3 hours. (On Request)

512 Investigations in Art Education. 3 hours. (On Request)

531 Education—Art Education Seminar. 3 hours.
See Department of Teacher Education. (Summer)

STUDIO COURSES

220 Ceramics. 3 hours.
Prerequisites: Art 105, 106, 130 and 140 (or concurrently with 105, 106).
Introductory ceramic procedures in handbuilding, glazing and kiln-firing techniques. (Fall, Spring)

320 Ceramics. 3 hours.
Prerequisite: Art 220.
This course introduces the student to pottery-wheel techniques and emphasis is placed on the study of clay and glaze compositions. (Fall, Spring)

321 Ceramics. 3 hours.
Prerequisite: Art 320.
This course emphasizes and requires advanced performance in pottery-wheel techniques, in creative form concepts and evidence of a particular talent in ceramic art. (Fall, Spring)

420, 420G Ceramics. 3 hours.
Prerequisite: Art 321.
A continuation of production in clay form and research in experimental clay and glaze composition. (Fall, Spring)

421, 421G Ceramics. 3 hours.
Prerequisite: Art 420 and 420G.
This course requires advanced individual performance in creative design concepts and in research and recording. (Fall, Spring)

422, 422G Ceramics. 3 hours.
Prerequisite: Art 421 or 421G.
This course is a continuation of 421 or 421G. (Fall, Spring)

520 Ceramics. 3 hours.
This course is a continuation of 421 Ceramics. (Fall, Spring)

130 Design. 3 or 6 hours.
This course is an introduction to the elements and principles of design and their creative application in two- and three-dimensional design problems. (Fall, Spring)

239 Creative Art Photography. 3 hours.
Prerequisite: Journalism 231.
A study of the philosophy, history, and application of photography as an art medium. Lectures and exploration of creative techniques through directed and independent lab experience.

330 Graphic Design. 3 hours.
Prerequisites: Art 130, 140, 240, first course in at least 2 studios, Junior standing.
While the course uses elements to create forms for public viewing and also emphasizes the use of the student's experience gained from other studio areas, its primary concern is to strengthen the student's aesthetic awareness in graphic design.

430 Graphic Design. 3 hours.
Prerequisites: Art 330, Journalism 343, and a portfolio of graphic designs acceptable to the instructor.
A studio course to synthesize the student's previously acquired technical ability and aesthetic awareness into finished graphic design comprehensives of professional caliber.

140 Drawing. 3 hours.
This course introduces the fundamentals of drawing with emphasis on line, perspective and rendering. Course content is derived from still life, landscape and figure. (Fall, Spring)

240 Drawing. 3 hours.
Prerequisite: Art 130 and 140.
This course introduces the student to specific problems in composition and anatomy. (Fall, Spring)

340 Drawing. 3 hours.
Prerequisite: Art 240.
Composition and exploration of different media and techniques are emphasized in drawing from still life arrangements, landscapes and figure. (Fall, Spring)

341 Drawing. 3 hours.
Prerequisite: Art 340.
Advanced figure drawing from the model is provided in this course, with continued emphasis on composition and technique. (Fall, Spring)

440, 440G Drawing. 3 hours.
Prerequisite: Art 341.
This course consists of advanced individual problems in figure drawing. (Fall, Spring)

540 Drawing. 3, 6, or 9 hours.
(Fall, Spring)

250 Printmaking. 3 hours.
Prerequisites: Art 105, 106, 130, 140 or concurrently with 105, 106.
This course introduces the student to printmaking investigations through one of the following processes: relief, silk screen, intaglio or lithography. (Fall, Spring)

350 Printmaking. 3 hours.
Prerequisite: Art 250.
A further search into printmaking is provided, emphasizing the student's development of imagery through one of the following processes: relief, silk screen, intaglio or lithography. (Fall, Spring)

351 Printmaking. 3 hours.
Prerequisite: Art 350.
This course continues the student's development of personal imagery and technical proficiency through printmaking in either relief, silk screen, intaglio or lithography. (Fall, Spring)

450, 450G Printmaking. 3 hours.
Prerequisite: Art 351.
This course stresses advanced color printing techniques in either relief, silk screen, intaglio or lithography and requires students to have strong personal imagery. (Fall, Spring)

451, 451G Printmaking. 3 hours.
Prerequisite: Art 450 or 450G.
Research problems in relief, silk screen, intaglio or lithography are investigated in this course. (Fall, Spring)

452, 452G Printmaking. 3 hours.
Prerequisite: Art 451 or 451G.
This course consists of advanced research problems in printmaking. (Fall, Spring)

550 Printmaking. 3, 6 or 9 hours.
(Fall, Spring)

260 Painting. 3 hours.
Prerequisites: Art 105, 106, 130 and 140 (or concurrently with 105, 106).
The purpose of this course is to help the student acquire a working knowledge of the techniques involved in the use of acrylics, oils and watercolors. (Fall, Spring)

360 Painting. 3 hours.
Prerequisite: Art 260.
This course stresses the creative approach to the use of oils and acrylics. Emphasis is placed upon developing and understanding of the materials, principles and techniques inherent in a work of art. Outside reading and pictorial investigations are assigned. (Fall, Spring)

361 Painting. 3 hours.
Prerequisite: Art 360.
This course requires students to apply knowledge, understanding and skills in painting with increased competence and insight. (Fall, Spring)

460, 460G Painting. 3 hours.
Prerequisite: Art 361.
Research problems in selected painting materials are provided in this course. (Fall, Spring)

461, 461G Painting. 3 hours.
Prerequisite: Art 460 or 460G.
This course consists of advanced individual research problems in painting. (Fall, Spring)

462, 462G Painting. 3 hours.
Prerequisite: Art 461 or 461G.
This course is a continuation of 461 Painting. (Fall, Spring)

560 Painting. 3, 6, or 9 hours.
(Fall, Spring)

270 Sculpture. 3 hours.
Prerequisites: Art 105, 106, 130 and 140 (or concurrently with 105, 106).
An introduction to carving, casting and modeling. Work in the life figures, portraiture and relief sculpture. (Fall, Spring)

370 Sculpture. 3 hours.
Prerequisite: Art 270.
Further development of basic sculptural materials and techniques. (Fall, Spring)

371 Sculpture. 3 hours.
Prerequisite: Art 370.
Advanced work in sculpture composition. Welding is introduced, using oxyacetylene, electric arc and gas arc. (Fall, Spring)

470, 470G Sculpture. 3 hours.
Prerequisite: Art 371.
Sculptural problems. Introduction to metal casting using sand molds. (Fall, Spring)

471, 471G Sculpture. 3 hours.
Prerequisite: Art 470.
Sculptural problems. Introduction to the lost-wax method of casting. (Fall, Spring)

472, 472G Sculpture. 3 hours.
Prerequisite: Art 471, 471G.
Experience in solving imaginative problems met in professional practice. Presentation of work for prospective commission. (Fall, Spring)

570 Sculpture. 3, 6, or 9 hours.
(Fall, Spring)

280 Weaving. 3 hours.
Prerequisites: Art 105, 130 and 140 (or concurrently with Art 105, 106).
This course is an introduction to weaving including rya, flossa, and tapestry rug techniques plus techniques for yardage and wall hangings. (Fall, Spring)

380 Weaving. 3 hours.
Prerequisite: Art 280.
In this course, the creative and individual approach is emphasized in weaving full-size items using techniques learned in Weaving 280, in addition to other weaving techniques. (Fall, Spring)

381 Weaving. 3 hours.
Prerequisite: Art 380.
In this course, the student is expected to delve deeply into one or more selected areas of weaving. (Fall, Spring)

480, 480G Weaving. 3 hours.
Prerequisite: Art 381.
This course consists of creative research in the areas of double-weave, Ikat, vegetable dyeing, the use of indigenous fibers and other more complicated techniques. (Fall, Spring)

481, 481G Weaving. 3 hours.
Prerequisite: Art 480 or 480G.
This course provides for the development of special creative problems involving techniques investigated in Weaving 480. (Fall, Spring)

482, 482G Weaving. 3 hours.
Prerequisite: Art 481 or 481G.
This course involves advanced individual research in weaving. (Fall, Spring)

580 Weaving. 3, 6, or 9 hours.
(Fall, Spring)

490, 490G Special Problems
(Fall, Spring)

491, 491G Special Studies
(Fall, Spring)

599 Thesis in Art. 6 hours.
(Fall, Spring)

DEPARTMENT OF COMMUNICATION AND THEATRE

IVAN WILSON CENTER FOR THE FINE ARTS, ROOM 130

Professor J. Regis O'Connor, Interim Department Head

Professors: R. Capps, C. Kell, W. Leonard, D. Zacharias
Associate Professors: C. Anderson, J. Brown, W. Combs, C. Dodd, J. Kesler, J. Pearse, E. Rudolph, J. Wesolowski, D. Wicklander, L. Winn
Assistant Professors: M. Branstetter, L. Caillouet, L. Ruff, D. Satterthwaite, P. Taylor
Instructors: J. Fulmer, B. Johnson, T. Traughber
Artist-in-Residence: B. Leonard

The Department of Communication and Theatre provides professional courses for students enrolled in major and minor programs in the department; it provides cultural experiences for the entire university through theatre and dance programs sponsored by the department; it prepares students for career opportunities in teaching at the high school and college level, in broadcasting, in politics, in the ministry and in many other fields; it provides opportunity for self-expression through intercollegiate debate and various other types of contest speaking; it provides opportunities for students to become involved with the university's television and radio broadcast facilities and it provides opportunities for students to become discriminating consumers of the mass communication product.

The department provides students practical laboratory experiences in the theatre and dance and thus prepares them for pursuing careers in the professional entertainment field, and it provides a variety of courses in communication and theatre/dance that will enrich the general education program of students majoring in other disciplines. Students from all departments are encouraged to participate in programs offered by Western Players, Western Kentucky University Dance Company, and the Western Kentucky University Forensics Union. Western competes with major colleges and universities in various phases of intercollegiate forensic competition throughout the year.

Many career opportunities are available for students of communication and theatre/dance. Communication majors may elect teaching at the high school level, public relations, politics or many other fields. Theatre majors will find many opportunities in higher education and some phases of television. Professional entertainment fields are available for students with outstanding ability and stamina.

MAJOR IN BROADCASTING

The major in broadcasting (reference number 726) requires a minimum of 33 semester hours and leads to a Bachelor of Arts degree. The following courses are required for a major: Broadcast Communications 201, 301, 401 and Journalism 202. The remaining courses will be chosen in consultation with the departmental advisor depending upon the student's objectives. Sequences are available in Radio, Television and Broadcast News.

MAJOR IN MASS COMMUNICATIONS

The major in mass communications (reference number 725) requires a minimum of 33 semester hours and leads to a Bachelor of Arts degree. The following are required courses: (12 hours) Broadcast Communications 201 301, 401 and Journalism 202. The remaining courses will be chosen in consultation with the departmental advisor depending upon the student's objectives.

MAJOR IN SPEECH

The major in speech (reference number 792) requires a minimum of 27/30 semester hours and leads to the Bachelor of Arts degree. The following are required courses: (9 hours). Speech Communication 145, 247, 345 and 18-21 hours of restricted electives chosen in consultation with a departmental advisor.

MAJOR IN SPEECH AND THEATRE

The major in speech and theatre—drama (reference number 794) requires a minimum of 36 semester hours and leads to a Bachelor of Arts degree. This major is for teacher certification only. The following are required courses: (18 hours). Speech Communication 145, 247 and 345; Theatre 152, 252, 354 or 355 and 12-18 hours of restricted electives chosen in consultation with a departmental advisor.

MAJOR IN THEATRE

The major in theatre (reference number 798) requires a minimum of 36 semester hours and leads to a Bachelor of Arts degree. The following are required courses: (18 hours). Theatre 152, 154, 242, 354 or 355, 357, 457 and 18 hours of restricted electives chosen in consultation with a departmental advisor.

AREA OF CONCENTRATION IN THE PERFORMING ARTS

The area of concentration in the performing arts—dance, music, theatre (reference number 588) requires a minimum of 63 semester hours and leads to a Bachelor of Fine Arts degree. The following courses are required: Music 100, 101, 120, 430, Applied Voice (4 hours), Performing Groups (2 hours); Theatre 152, 154, 353, 355, 457; Dance 111, 113, 115, 117, 211, 310, 312, 314, and 410 and 18 hours of additional approved electives with a selective emphasis from either dance, music, or theatre.

MINOR IN BROADCASTING

The minor in broadcasting (reference number 330) requires a minimum of 18 semester hours. The following courses are required: Broadcast Communication 111 or 201, 261 and 266. The remaining courses must be chosen in consultation with an assigned departmental advisor.

MINOR IN DANCE

The minor in dance (reference number 344) requires a minimum of 24 semester hours. The requirements for Western's interdisciplinary minor in dance as offered by the departments of Music and Communication and Theatre are: Dance (7 hours) to be selected from: Dance 110, 111, 113, 115, 117, 211, 212, 213, 214, 217, 220, 310, 311, 312, 313, 314, 410, 411, 412, 413, and 415. Music (6 hours): Music 100 and Elective (see below); Theatre (6 hours): Theatre 153 and Elective (see below); General Electives (5 hours): See below elective courses: Any of the DANCE courses listed above not previously taken, plus PHYS ED 224A, 224B, and 325B; MUSIC 101, 120, 225, 326; THEATRE 153, 154, 252, 254, and 457.

The interdisciplinary minor in dance is designed to provide the student with a well-rounded knowledge of dance while establishing the basic groundwork in a broad range of related areas in music and theatre.

MINOR IN FILM STUDIES

The minor in film studies (reference number 360) requires a minimum of 18 semester hours. The following courses are required for a minor: Broadcast Communications 271, 276, 371 and 471. The remaining courses must be chosen in consultation with an assigned departmental advisor.

MINOR IN MASS COMMUNICATIONS

The minor in mass communications (reference number 414) requires a minimum of 21 semester hours. The following courses are required for a minor: Broadcast Communications 201, 301, 401, Journalism 202, plus three additional courses to be chosen in consultation with an assigned departmental advisor.

MINOR IN SPEECH

The minor in speech (reference number 480) requires a minimum of 18/21 semester hours. The requirement of 21 semester hours meets teacher education certification. Required courses are: (9 hours) Speech Communication 145, 247, 345 and 9-12 hours of restricted electives chosen in consultation with an assigned departmental advisor.

MINOR IN THEATRE—DRAMA

The minor in theatre—drama (reference number 490) requires a minimum of 18/21 semester hours. The requirement of 21 semester hours meets teacher education certification as a drama minor. The following are required courses: (12 hours) Theatre 152, 252, 354 or 355, 457 and 6-9 hours of restricted electives chosen in consultation with an assigned departmental advisor.

GRADUATE DEGREE PROGRAMS

The Department of Communication and Theatre offers the Master of Arts degree in speech with emphasis possible in Rhetoric-Public Address, Mass Communication, Theatre, Interpretation, Communication Theory, Communication Disorders* and Speech Education. Through the Master of Arts in Education degree, the student may major in speech or minor in either speech or theatre (drama). Assistantships are available to qualified students. See the Graduate College Bulletin for information. Write to the Dean of the Graduate College or the Department Head for additional information.

*The degree program is still administered by the Department of Communication even though the program has been transferred to the College of Applied Arts and Health.

COURSES OF INSTRUCTION

BROADCAST COMMUNICATION

111 Survey of the Mass Media. 3 hours.
A course designed to initiate the student's development of ability to appreciate and evaluate the aesthetic and societal features of mass media. Surveys the nature, development, contemporary structure and influence of mass communications. (Every Semester)

201 Process and Effects of Mass Communications. 3 hours.
An in-depth study of the theoretical foundations for analyzing mass communications messages, channels, institutions, audiences and salient effects. Provides overview of research-based scholarly conceptions of mass media roles and functions for individuals and groups. (Every Semester)

261 Basic Radio Production. 3 hours.
Designed to introduce students to the operation of radio studio equipment and general station operation. Practical experience producing various types of radio broadcast material. Lecture and lab. (Every Semester)

266 Basic Television Production. 3 hours.
Designed to introduce students to the operation of television studio equipment and general station operation. Practical experience producing various types of television broadcast material. Lecture and lab. (Every Semester)

271 Introduction to the Cinema. 3 hours.
A study of the basic elements and techniques of the film medium, designed to increase the students' understanding and appreciation of the motion picture both as a communication medium and an art form. A number of film masterpieces will be viewed and analyzed. Lecture and lab. (Every Semester)

276 Basic Cinematography. 3 hours.
Designed to introduce students who have no previous work in motion picture production to the theory and practice of film production and its practical application. Lecture and lab. (Every Semester)

301 Mass Communications Law and Ethics. 3 hours.
An introduction to concepts basic to the freedom of expression. Consideration, through case study and attention to topical problems, of limits of the freedom of expression, various means of regulation of expression, ethics, law and other social controls. (Every Semester)

311 Comparative Mass Communications. 3 hours.
The legal and conceptual foundations of the American system of mass communication operations. Comparative analysis of other nations' systems and philosophies of ownership, control, use, purposes and functioning of the mass communication media. (Every Semester)

325 Survey of Writing for Television and Radio. 3 hours.
A survey of television and radio as media for the writer and the forms of writing prevalent in the two media. Survey of, and practice in, techniques for writing commercials, public service, news, sports, interviews, and dramatic segments. Introduction to the production elements involved in writing for television and radio. (Every Semester)

326 Television and Radio Performance. 3 hours.
The fundamentals and principles of communicating as performer on-microphone and on-camera, including voice improvement and image projection as well as exercises in the types of performing prevalent in radio and television. (Fall)

361 Advanced Radio Production. 3 hours.
Prerequisite: Br Com 261.
An advanced production course in radio broadcast programming. Integrated work on WKYU radio. Projects include regularly scheduled DJ shifts, remotes, documentary and spot production. Course instruction offered which leads to the passage of the FCC 3rd class license with broadcast endorsement. Lecture and lab. (Every Semester)

365 Broadcast News Reporting. 3 hours.
Prerequisite: Br Com 202.
A fundamental approach to the principles and practice of collecting, writing, editing and announcing the news by means of radio and television. Lecture and lab. (Fall)

366 Advanced Television Production.
3 hours.
Prerequisite: Br Com 266.
An advanced production course which includes work on original material. Work is centered around production teams which write, develop and produce various types of original program material. Lecture and lab. (Every Semester)

367 Electronic Field Gathering/ Electronic News Gathering. 3 hours.
A study of, and practical experience in, the various aspects of small-format videotape recording and editing procedures; together with a survey of the application of small-format videotape equipment in electronic news gathering (E.N.G.) and electronic field production (E.F.P.), for commercial and noncommercial television production industries, health related facilities, recreational concerns, and educational endeavors. (Every semester)

371 Cinema History. 3 hours.
Prerequisite: Br Com 271.
A study of the evolution of the motion picture from the earliest experiments with a moving image to the present, with special emphasis on technological and artistic developments, major cinematic styles and movements and milestones of directorial achievement. (Spring)

376 Advanced Cinematography. 3 hours.
Prerequisite: Br Com 276.
Advanced work in motion picture cinematography and preparation of material for laboratory printing. Practical application of cinematography in television news and spot production. Lecture and lab. (Spring)

401 History of Broadcasting in America.
3 hours.
Consolidates and interrelates the major historical factors in the development of broadcast mass communications in America; provides perspective on the creation, adaption and diffusion of radio and television in relation to other mass media. (Every Semester)

461 Radio Workshop. 1 hour.
Prerequisite: Br Com 361 and instructor's permission.
A radio production course for students with a continuing desire to contribute to the on-air operation of WKYU. Course work involves practical application of radio production skills in the areas of entertainment and news. May be repeated one time for one additional credit. Lecture and lab. (Every Semester)

465 Advanced Broadcast News Reporting.
3 hours.
Prerequisite: Br Com 365 and instructor's permission.
A continuation of the fundamentals of Broadcast News Reporting. Involving the practical application of broadcast reporting techniques to more in-depth broadcast news programming. Lecture and lab. (Spring)

466 Television Producing and Directing.
3 hours.
Prerequisite: Br Com 366 and instructor's permission.
An intense course in the assembling of original television broadcast material. Formats covered include news, variety, interview, commercial and general spot production. Lecture and lab. (Every Semester)

467 Broadcast Workshop. 1 hour (may be repeated twice for credit in additional topics).
An intense study of a specific production skill generally required of broadcasting personnel. These skills will be identified and studied through discussion and application. Various production-related topics include television lighting, television graphics, electronic news gather (E.N.G.), commercial spot production, industrial applications, scenic design and construction and others. (On Demand)

471 Theory and Criticism of the Cinema.
3 hours.
Prerequisite: Br Com 271.
Examination of a wide variety of major analytical-critical schemes which are applied to the cinema, including expressions of outstanding directors, theorists and critics. Analysis of a number of classic films. (On Demand)

481 Problems in Mass Communications.
3 hours.
Prerequisite: Permission of the instructor.
Course offers the student the chance to pursue an independent study in a number of areas including radio, television, cinematography and broadcast news. (On Demand)

485 Broadcast Operation and Management. 3 hours.
A study of the programming, operation, and management practices and problems related to broadcast radio and television stations in the U.S., as well as industry codes and regulatory requirements from governmental agencies. (Spring)

491 Internship. 3 hours.
Prerequisite: Approval of instructor.
Supervised internship on a professional news medium for a fixed period of time, conforming to minimums established by sequence heads. Follow-up may consist of seminars at which participants share their experiences, write reports on internships. (Every Semester)

521 Evaluation of Mass Communication.
3 hours.

522 Seminar in Mass Communication.
3 hours.

565 Seminar in Broadcasting. 3 hours.

SPEECH COMMUNICATION

145 Fundamentals of Speech. 3 hours.
This course presents the fundamentals of oral communication giving attention to interpersonal communication, speech composition and delivery. (Fall, Spring, Summer)

147 Argumentation and Debate. 3 hours.
Fundamentals of argumentation and debate. (Fall)

149 Group Discussion. 3 hours.
An intensive study of group dynamics, interaction and communication lines for use in group situations. (Fall, Spring, Summer)

161 Business and Professional Speaking.
3 hours.
This course will examine the speech-communication process in business and professions through studying principles and offering practical experience in the following areas; communication process, interpersonal relations, interviewing and counseling, conference and group processes, manuscript speaking, persuasion in selling, telephone communication, radio and television speaking and situational speech. (Fall, Spring)

242 Forensics Practicum I. 1 hour.
This course is designed to give students experience through active participation in the college, intercollegiate forensic program. (Fall, Spring)

247 Voice and Diction. 3 hours.
A detailed study of the individual's speech. Achieving a pleasing voice quality, correct articulation, distinct enunciation and diction free from any sub-standard pronunciation, are goals of the course. (Fall, Spring, Summer by demand)

249 Oral Interpretation of Literature.
3 hours.
Introduction to the study of literature through oral performance with an emphasis on techniques used with various types of literature. (Fall, Spring, Summer On Demand)

300 Interpretation Practicum. 1 hour.
(May be repeated once for credit.)
This course is designed to give the student experience in compiling or adapting a script; directing or coordinating an Interpreters Theatre show; reading hour or festival entry; and working in various technical areas of an Interpreters Theatre production. (Fall, Spring)

340 Parliamentary Procedure. 1 hour.
A study of accepted practices in parliamentary procedure. The course will give attention both to traditional and contemporary theory regarding parliamentary practices. (Fall, Spring)

341 Theories of Communication. 3 hours.
A survey of the many forms that communication can take including interpersonal communication; tele-communication; small group communication; persuasion; the arts and other related areas. (Fall, Spring)

342 Forensics Practicum II. 1 hour.
See Speech 242. (Fall, Spring)

343 Speech Criticism. 3 hours.
Study of methods of speech analysis and evaluation. (Fall)

345 Public Speaking. 3 hours.
Prerequisite: Speech 145 or permission of the instructor.
Preparation for and practice in making speeches of different types. Recommended for students with professional objectives. (Fall, Spring, Summer On Demand)

346 Communication and Persuasion.
3 hours.
This course introduces basic theory of persuasion and attitude change. The course emphasizes communication theory and rhetorical perspectives of persuasion.

349 Oral Interpretation of Drama. 3 hours.
Prerequisite: Speech 249.
Analysis of the structure and content of selected dramatic works from world theatre with emphasis on individual oral presentation of selected scenes. (Spring, On Demand)

400 Historical Studies in Communication.
3 hours.
A study of historical research methodologies in communication and theatre. (Fall)

440 Experimental Studies in Communication.
3 hours.
A study in research design, procedures and reporting with critical examination of experimental studies in various areas of communication. Representative problems for investigation consider the influence of oral communication upon attitudes, opinion and behavior. (Fall)

441 Advanced Oral Interpretation: Prose.
Prerequisite: Speech 249.
Prose fiction (short story, novella, novel) analyzed with an emphasis on point of view, tone and characterization in oral performance. (Spring)

442 Forensic Practicum III. 1 hour.
See Speech 242. (Fall, Spring)

443 Contemporary Rhetoric and Public Address. 3 hours.
Prerequisite: Speech 145.
A survey of contemporary theories or rhetoric and persuasion related to public address combined with an analysis of contemporary public address. (Fall, Spring)

444 Advanced Oral Interpretation: Poetry.
3 hours.
Poetry analyzed with an emphasis on differentation of types in oral performance. (Fall)

445 Research in Speech and Theatre. 3 hours.
A general introduction to research in speech. Normally offered as an independent study course. (Fall, Spring, Summer)

446 Classical Rhetoric. 3 hours.
Greek and Roman theories of rhetoric; Plato, Aristotle, Cicero and Quintillian will be studied. (Alternate Years Spring—even numbered years)

447 American Public Address. 3 hours.
A careful study and evaluation of selected speakers from American history. (Spring)

448 Kentucky Oratory. 3 hours.
A study of speakers who have been influential in shaping the destiny of Kentucky. The course will provide the student an overview of oratory selected from political, religious and social issues. (Spring of even numbered years or on demand)

449 Speech Development. 3 hours.
The role of speech as a teaching tool will be emphasized. Though not a course in corrective speech, minor problems in voice control, articulation and pronunciation will be examined and remedies studied. Considerable practice in speaking before the class will be provided. (Fall, Summer)

461 Organizational Communication. 3 hours.
A theoretical examination of rhetorical principles operant in modern organizational communication systems. Includes treatment of upward, downward, and horizontal communication; rumor chains and the grapevine; communications consulting; third party conciliation techniques; temporal kinesic communication; approaches to interviewing. (Fall and Spring)

463 Cross-Cultural Communication. 3 hours.
This course is designed to create an understanding of dimensions of communication theory that apply across cultural boundaries. Emphasis is placed on both theoretic and practical awareness of communication in and between cultures. (Fall)

501 Introduction to Graduate Study in Communication and Theatre. 1 hour.

540 Seminar in Rhetoric and Public Address.
3 hours.

541 Seminar in Communication Theory.
3 hours.

544 History and Theory of Interpretation.
3 hours.

545 Seminar in Speech. 3 hours.

546 Seminar in Forensics. 3 hours.

549 Rhetorical Theory and Criticism.
3 hours.

599 Thesis Research. 3 hours.

599 Thesis Research. 6 hours.

THEATRE

150 Rehearsal and Performance I. 1 hour.
Designed to give the student practical experience in theatre production in the areas of design, set construction, costuming, lighting properties, acting, publicity and house management. (Fall, Spring, Summer)

151 Theatre Appreciation. 3 hours.
A study of the literary, historical and creative aspects of the theatre. It is designed to develop an understanding and appreciation of the art of theatre from the point of view of the audience. (Fall, Spring, Summer on demand)

152 Fundamentals of Theatre. 3 hours.
An introductory course in theatre. It provides the student with practical experience in laboratory situations in connection with the theatre program of the University. (Fall, Spring, Summer on demand)

153 Stage Makeup. 1 hour.
Fundamentals of straight and character makeup. The application of the laws governing line, color, light and shade to makeup problems. Practical experience in makeup through various productions. (Fall, Spring)

154 Basic Techniques of Acting. 3 hours.
A study of beginning acting techniques devised to free the actor from mechanical, stilted stage behavior. (Fall, Spring)

250 Rehearsal and Performance II. 1 hour.
Continuation of Theatre 150. (Fall, Spring, Summer)

251 Stage Costume Construction. 3 hours.
A basic study of construction techniques for complete stage costumes with emphasis upon historical costume for the theatre. (Fall)

252 Stagecraft. 3 hours.
The fundamentals of scenery construction and rigging. Painting will be studied with workshop experience provided. (Fall, Spring, Summer)

254 Characterization for the Actor. 3 hours.
A study to develop truth in character development for the stage by means of range, depth and understanding of characterization. (Spring)

256 Voice for the Stage. 3 hours.
A practical course in voice development for the stage, to improve quality, increase strength, acquire flexibility, achieve awareness and institute control. (Fall, Spring)

257 Basic Design for the Theatre. 3 hours.
An introductory course in basic elements and techniques of design for scenery, costumes and lighting for the theatre. (Fall, Spring)

339 Children's Theatre. 3 hours.
Prerequisites: Theatre 152.
An examination of the selection, preparation and presentation of plays for children, emphasis on analysis of children's plays, script sources and production planning. (Spring)

350 Rehearsal and Performance III. 1 hour.
Continuation of Theatre 250. (Fall, Spring, Summer)

351 Theatre Design. 3 hours.
Prerequisite: Theatre 252.
This course presents basic principles of designing scenery for the theatre. The student will be required to do a complete design of a play, with drawings, renderings and a model. (Fall)

352 Acting. 3 hours.
A study of fundamental techniques of action involved in the actor's use of body, voice and imagination; the study of different types of plays both past and present; the presentation of various scenes in class with special emphasis on characterization. (Fall)

353 Styles of Acting. 3 hours.
Prerequisite: Theatre 352.
Acting problems stemming from differences in genres and styles of dramatic production from the Greeks to the present with emphasis on knowledge of the period, intensive scene and character analysis and the actor's individual problems. (Spring, even numbered years)

354 History of Drama to 1640. 3 hours.
A comprehensive course which traces the major developments in drama from the ancient Greeks to 1640. Emphasis is placed on representative dramatists and plays. (Fall)

355 History of Drama since 1640. 3 hours.
A continuation of Theatre 354. (Spring)

356 Production of Theatre for Children.
3 hours.
Prerequisites: Theatre 152 and 339.
A practical application of children's theatre training by means of a traveling children's theatre production company performing on campus and in the surrounding area. (Fall)

357 History of the Theatre. 3 hours.
Prerequisites: Six hours in either Speech, Theatre, English or History.
A chronological survey of the development of the theatre in all its aspects from primitive ritual to the modern age. (Fall)

358 Stage Dialects. 3 hours.
A practical course in the study and production of dialects essential for the portrayal of characters on stage and essential for the complete training experience of a student interested in pursuing a career in professional or educational theatre. (Alternate years Spring, odd numbered years)

359 Rehearsal and Performance IV. 1 hour.
Continuation of Theatre 350. (Fall, Spring, Summer)

369 Professional Work/Career Experience in Theatre. 3 hours.
Practical out-of-classroom experience in a supervised work situation with a cooperating business, industry, social or governmental agency. Can be repeated one time with departmental approval. (Every semester)

431 Musical Theatre. 3 hours (See Music Department)
A study of the development of the musical theatre; the style and form of its music, dance and drama; and its impact on the modern theatre. (Fall, odd numbered years, on demand)

435 Puppet Theatre. 3 hours.
Basic study of puppets, muppets and marionettes with emphasis upon the areas of history, construction, operation and performance. (Spring)

450 Readers Theatre. 3 hours.
Prerequisites: Speech 349 or permission of the instructor.
A study of varied methods of group oral interpretation of literature with emphasis upon the short story, poetry and drama. The course will include analysis of literature, preparation of Readers Theatre and Chamber Theatre scripts and performance in class projects. (Spring, Summer on demand)

451 Stage Costume Design. 3 hours.
An advanced course for theatre majors as well as those interested in understanding the concept of costuming. Emphasis is placed upon the historical and practical aspects of theatrical costume design. (Spring, even numbered years)

452 Stage Lighting. 3 hours.
Lighting equipment is demonstrated and the student is provided practical experience in working with lights for the major productions, at a time other than the class period. Each student will design the lighting for a full length play. (Spring)

453 Historic Costume for the Stage. 3 hours.
A study of the historic costume of the major periods of theatrical production and the problems of the costumed actor, with manners and movements of the respective periods. (Spring, odd numbered years)

454 Theatre Management. 3 hours.
A basic study of the principles of management applied to the fields of theatre operation, production preparation and performance. Particular emphasis on issues of major importance that will affect the direction and growth of the theatre. (Spring, odd numbered years)

455 American Drama. 3 hours.
This course deals with the development of American Drama, Colonial production of British plays and American adaptations of such plays to its present position in literature. (Alternate Years Fall — odd numbered years)

457 Directing. 3 hours.
A guided study in interpreting and directing the play. (Fall)

458 Theatre Practicum. 3 hours.
Reading of plays and dramatic materials; study of various staging methods; prompt script; with analysis of director's research; individual interpretation and production plans; final production. (Fall, Spring, Summer)

459 Modern Drama. 3 hours.
A selected study of dramatic literature since Ibsen with emphasis on evolving developments and trends in world theatre. (Fall, even numbered years)

460 Theories of Directing. 3 hours.
The study of the evolution of the modern director and the theoretical and practical bases of contemporary stage direction. (Spring, odd numbered years)

482 Shakespeare. 3 hours.
See English 482.

499G Studies in British Theatre. 3 hours.

550 Seminar in Theatre. 3 hours.

552 Dramatic Theory and Criticism. 3 hours.

553 Restoration and Eighteenth Century Drama. 3 hours.

554 Theatre Styles. 3 hours.

583 Shakespeare II. 3 hours.
See English 583.

DANCE PROGRAM

110 Fundamentals of Dance. 3 hours.
A general study of the various forms of dance with emphasis on the contributions each has to the performing arts and the development of our culture. (Fall)

111 Basic Ballet Techniques. 1 hour.
An introduction to basic techniques of ballet with emphasis on proper techniques, mechanics, differences of the three major systems, and terminology. (Every Semester)

113 Basic Jazz Technique. 1 hour.
An introduction to the basic techniques of jazz with emphasis on technique mechanics, development of styles, and terminology. (Every Semester)

115 Basic Tap Technique. 1 hour.
An introduction to the basic techniques of tap with emphasis on technique mechanics, rhythmical development and terminology.

117 Basic Modern Dance Technique. 1 hour.
An introduction to the basic techniques of modern dance with emphasis on technique mechanics and development of the body as a creative tool. (Every Semester)

211 Intermediate Ballet Technique I. 1 hour.
A study of ballet technique at the intermediate level with emphasis on development of basic allegro and adage technique. (Once every school year)

212 Intermediate Ballet Technique II. 1 hour.
A study of ballet technique at the intermediate level with emphasis on techniques that travel and small enchainement sequences. (Once every school year)

213 Intermediate Jazz Technique. 1 hour.
A study of jazz techniques at the intermediate level with emphasis on broadening the movement potential for adapting to various styles. (Once every school year)

215 Intermediate Tap Technique. 1 hour.
A study of tap technique at the intermediate level with emphasis on technique development and use of complex rhythm patterns. (Once every school year)

217 Intermediate Modern Dance Technique. 1 hour.
A study of modern dance techniques at the intermediate level with emphasis on elements of time, space, and energy. (Once every school year)

220 Stage Movement. 2 hours.
A study of physical techniques in pantomime and abstract gesture including a study of social movement patterns of selected historical periods. (Once every school year)

310 Compositional Techniques in Dance. 2 hours.
An introduction to the elements that go into the creative development of dance with emphasis on the isolation of various elements for the purpose of detailed study. (Once every school year)

311 Ballet Theory I. 2 hours.
A study of ballet techniques with emphasis on analysis and correction of mechanics and the combining of techniques into dance sequences. (Alternate Years)

312 Pas de Deux. 1 hour.
A study in the basic techniques of pas de deux with emphasis on the technique mechanics that apply to support, timing, and concepts of classical partnerning. (Once every school year)

313 Jazz Styles I. 2 hours.
A study of early jazz styles and the influences that created jazz dance as primarily an American dance form. (Alternate Years)

314 Ethnic and Character Dance. 1 hour.
An introductory study of some of the basic forms of ethnic and character dance that are essential to the foundation of professional dance training. (Alternate Years)

410 Dance Practicum. 3 hours.
An independent study project that enables the student to do research and special projects in unique areas where the usual coursework does not fulfill the need of the student. (Every Semester)

411 Ballet Theory II. 2 hours.
A study of ballet with emphasis on the more advanced technique mechanics and artistic refinements needed at performance level of dance. (Once every school year)

412 Adagio. 1 hour.
A study of the art of partnering with emphasis on advanced techniques that progress from the basic classical pas de deux. (Alternate Years)

413 Jazz Styles II. 2 hours.
A study of jazz styles that influence the current trends of the dance profession with emphasis on free style and musical comedy jazz forms. (Alternate Years)

415 Choreography. 3 hours.
A study in the development of compositional elements into complete dance form with emphasis on completion of a dance composition through all of the production aspects. (Alternate Years)

DEPARTMENT OF ENGLISH

CHERRY HALL, ROOM 135

Associate Professor James Flynn, Head

Professor Lee Little, Graduate Advisor
Professor Frank Steele, Director of Freshman English

Professors: H. Bowen, N. Davis, W. Fridy, J. Heldman, G. McCelvey, D. McMahon, W. McMahon, R. Miller, R. Ward, W. Wood
Associate Professors: C. Allmon-Mosby, M. Bruner, J. Flynn, J. Glaser, C. Guthrie, W. Huddleston, J. Lewter, C. Lockhart, J. Survant, J. Schwarzkopf, R. Wurster
Assistant Professors: J. Boggs, R. Eckard, F. Fields, W. Gatlin, P. Jones, T. Jones, E. Laman, B. Martin, M. Miller, R. Moore, G. Niva, J.Reiss, W. Rutledge, J. Spurlock, C. Ward
Instructors: G. Disman, A. Johnson, B. Kesler, J. Moisan, F. Perdue, M. Reiss

The English Department offers three programs of study: an area of concentration in English, a major in English, and a minor in English. (See program requirements on this page.) The department also makes a significant contribution to the general education of all students. (See general education requirements.)

The department serves other departments through its offerings in advanced composition, technical writing, linguistics, English as a second language, and methods of teaching English in the elementary school. Other activities include extension work (both correspondence and off-campus courses), community college courses and a creative writing group.

MAJOR IN ENGLISH*

The major in English (reference number 662) requires a minimum of 39 semester hours and leads to a Bachelor of Arts degree. Requirements for the major are as follows: English 101, 102, 183, 285, 304, 381, 382, 391, 392, 401 or 404; 6 semester hours of upper level literature; 3 hours of electives.

AREA OF CONCENTRATION IN ENGLISH AND ALLIED LANGUAGE ARTS*

The area of concentration in English and allied language arts (reference number 547) requires a minimum of 54 semester hours and leads to a Bachelor of Arts degree. Requirements for the area of concentration are as follows: English 101, 102, 183, 285, 304, 381, 382, 391, 392, 401; 6 hours of upper level literature; and 18 hours of allied language arts (speech, theatre, mass communications.)

MINOR IN ENGLISH

The minor in English (reference number 359) requires a minimum of 27 semester hours. Requirements for the minor are as follows: English 101, 102, 183, 304, 381, 382, 391, 392; 3 hours of upper level literature.

GRADUATE DEGREE PROGRAMS

The Department of English also offers programs leading to the following graduate degrees: M.A. in English, M.A. in Education with a major in English, M.A. in Education with a major in English and Allied Language Arts, M.A. in Education with a minor in English, and Specialist in College Teaching with a major in English. Requirements for these degrees are described in the bulletin of the Graduate College.

*Students are required to have some experience with a foreign language (at least 2 years in high school or 6 hours in college) and 3 hours in speech.
Also, all people preparing to teach English in the secondary schools must take Education 444, Reading Instruction in Junior and Senior High Schools.

COURSES OF INSTRUCTION

051 English as a Second Language.
3, 6, 9 or 12 hours.
A course designed to give non-native English speakers intensive practice in the four major language skills: reading, writing, listening and speaking.

055 Introduction to College English. 3 hours.
An intensive course in the basic mechanics of writing, reading and grammar, designed to prepare the student for college-level work in English. (Every Term)

101 Freshman English. 3 hours.
A general introduction to language, rhetoric and composition. Some attention is given to the use of the dictionary, handbook and to reading. (Every Term)

102 Freshman English. 3 hours.
Prerequisite: 101.
An intensive course in composition emphasizing rhetorical strategies, the conventions of expository prose, the study of the essay as a form and the techniques of scholarly research. The student writes eight to ten brief papers, plus a research paper. (Every Term)

104 Introduction to Linguistics. 3 hours.
A general introduction to language study with emphasis on terminology and different approaches. (On Demand)

183 Introduction to Literature. 3 hours.
Prerequisite: 101 and 102.
Study of the essential characteristics of poetry, fiction and drama as forms of literary expression with emphasis on developing the student's capacity for critical reading, perception and an enriched understanding of literature as a reflection of the human experience. (Every Term)

203 Creative Writing I. 1 hour.
Prerequisites: English 101, 102, 183 (or equivalent).
A course to assist each student in developing those writing skills needed to express in the short story, novel, poem, or play whatever is already in the student himself. The course is designed to help the student formulate, rather than dictate, his themes and philosophy. Attention will be paid to crafts other writers have found useful. Publication is encouraged.

285 World Literature. 3 hours.
Study of selected works in translation by major figures in world literature from ancient Greece to modern Europe, exclusive of British and American writers. (Every Term)

302 Language and Communication. 3 hours.
A course in English grammar and usage designed primarily for elementary education majors. Emphasis is given to sentence structure. Attention is also given to the nature of language, historical backgrounds, dialects, and standards of correctness. (Every Term)

303 Creative Writing II. 1 hour.
Prerequisite: English 203.
See English 203.

304 The English Language. 3 hours.
A study of the phonology, morphology and syntax of Modern English, with emphasis given to word classes, phrases, clauses and sentences. (Every Term)

306 Business Writing. 3 hours.
Prerequisites: English 101 and 102. Designed to meet the needs of students in Business Administration, this course teaches the preparation of written reports,

case studies, and other forms of professional writing. (Fall, Spring)

307 Technical Writing. 3 hours.
Prerequisites: English 101 and 102.
Designed to meet the needs of students in engineering and other technical fields, this course teaches the preparation of written and oral reports. Emphasis is on formal and informal reports, but the course also includes various kinds of business letters, memoranda and other forms necessary in the student's future professional role. (Fall, Spring)

319 Teaching Language in the Grades.
3 hours.
Recommended Prerequisite: English 302.
This course explores methods and materials for teaching English in the elementary school. Attention is given to objectives, to evaluation of textbooks and to related materials. Also contains some review and drill on subject matter. Not to be taken by majors and minors. (Every Term)

320a, b American Studies I and II.
3 hours each.
This program is designed to examine the diverse origins and the decisive elements in the development of American culture. It should also provide a wide cultural appreciation and a greater understanding of the mainstream of American thought. (a, Fall; b, Spring)

331-336 The Shakespeare Plays. 3 hours.
Prerequisites: English 101, 102. Designed to introduce students to Shakespeare's drama and to enable them to experience a play with understanding and appreciation. Not to be counted toward an English major or minor. Only one course in the sequence 331-336 may be counted toward degree requirements.

354 History of Drama to 1640. 3 hours.
See Department of Communication and Theatre.

355 History of Drama Since 1640. 3 hours.
See Department of Communication and Theatre.

380 Masterpieces of English Literature.
3 hours.
Provides for familiarity with the better-known works of leading authors. Not to be taken by English majors or minors. (Every Term)

381 Survey of English Literature I. 3 hours.
A chronological study of the development of English literature to 1798 reflected in representative works by major authors. (Every Term)

382 Survey of English Literature II. 3 hours.
A chronological study of the development of English literature from 1798 to the present reflected in representative works by major authors. (Every Term)

390 Masterpieces of American Literature.
3 hours.
Provides for familiarity with the better-known works of leading authors. Not to be taken by English majors or minors. (Every Term)

391 Survey of American Literature I. 3 hours.
Survey of American Literature, from the beginning to 1865. (Every Term)

392 Survey of American Literature II. 3 hours.
Survey of American Literature, from 1865 to the present. (Every Term)

396 Mythology. 3 hours.
Prerequisites: English 101 and 102.
Greek, Roman, and Norse myths and their influence on art and literature.

397 Etymology and Semantics (Word Study).
3 hours.
Prerequisites: English 101 and 102.
A study of influences of Latin and Greek on roots, prefixes and suffixes; formation of derivatives; emphasis on vocabulary of science.

401 Advanced Composition. 3 hours.
Theory and performance in the essay of ideas with stress on the essay form and coherence, sentence and paragraph design, punctuation, research paper technique and other writing conventions.

403 Creative Writing III. 1 hour.
Prerequisite: English 303.
See English 203.

404 History of the English Language.
3 hours.
A study of the origins and development of the language from Indo-European to Modern English, with emphasis on developments in the sound system, vocabulary and grammar. Attention is also given to historical and cultural forces which have affected the language.

405 Phonetics. 3 hours.
A study of speech sounds, their production and their acoustic properties.

407 Descriptive Linguistics. 3 hours.
The study of current linguistic theory which includes the important levels of language as a means of communication, as well as some of the various theories and applications of linguistic theory to other fields of study.

455 American Drama. 3 hours.
See Department of Communication and Theatre.

456 Elizabethan Drama. 3 hours.
See Department of Communication and Theatre.

458 Modern British Novel. 3 hours.
A study of the techniques and rationale reflected in representative works of major British novelists from Joseph Conrad to the present, with attention also given to the intellectual climate of the period.

459 Modern Drama. 3 hours.
See Department of Communication and Theatre.

460 Literary Criticism I. 3 hours.
A survey of the critical theory and practice of the significant literary critics of the Western world from the Greek and Roman periods through the English Neo-Classical period.

469 Introduction to Teaching English as a Second Language. 3 hours.
Prerequisite: One linguistics course.
An introduction to theories, methods, and materials for teaching English as a second or foreign language. Not to be counted toward an English major or minor.

481 Chaucer. 3 hours.
Representative works of Chaucer, with emphasis on the *Canterbury Tales;* some attention to the medieval background.

482 Shakespeare I. 3 hours.
A survey of Shakespeare's plays, including most of the tragedies and a few significant comedies and histories (about fifteen plays). Although some attention is given to the background of Shakespeare and critical approaches to his work, the main emphasis is on the plays themselves.

483 The English Renaissance. 3 hours.
Poetry and prose of the Renaissance, with emphasis on Spenser.

484 The Romantic Movement. 3 hours.
Background and phases of romanticism, with a study of representative exponents of the romantic movement.

485 The Seventeenth Century. 3 hours.
The concentrated study of the seventeenth century literature, forms and developments.

486 The Eighteenth Century. 3 hours.
The concentrated study of the eighteenth century literature, forms and developments.

487 Victorian Prose. 3 hours.
The major prose writers of the Victorian period with sufficient study of political, social and economic movements to show the interrelationships between the culture of the era and its literature.

488 Victorian Poetry. 3 hours.
The major poets of the Victorian period with sufficient study of political, social and economic movements to show the interrelationships between the culture of the era and its literature.

489 The English Novel. 3 hours.
The technique and history of the novel. Several representative novels studied.

490 The American Novel. 3 hours
History and technique of the American novel from Cooper to the present. Several representative novels studied.

493 Major American Poets. 3 hours.
This course is a careful study of the major poems, the styles and the poetic intent of the most important American poets from Poe to the present.

494 Kentucky Literature. 3 hours.
A survey of literary people and places in Kentucky, detailed study of several works of Kentucky writers.

495 Southern Literature. 3 hours.
This course traces the development of uniquely Southern characteristics as exhibited in the works of major, minor and so-called "regional" writers of the South.

GRADUATE COURSES

503 Linguistics and Transformational Grammar. 3 hours.

520 Bibliographical and Methodological Studies in Literature. 3 hours.

553 Restoration and Eighteenth Century Drama. 3 hours.

560 Literary Criticism II. 3 hours.

581 Readings in Old English. 3 hours.

582 Middle English Literature. 3 hours.

583 Shakespeare II. 3 hours.

585 Milton. 3 hours.

587 Wordsworth and Keats. 3 hours.

588 Modern British Poetry. 3 hours.

591 Emerson, Thoreau, Whitman. 3 hours.

592 The Age of Twain and James. 3 hours.

593 Poe, Hawthorne, Melville. 3 hours.

594 Contemporary Fiction. 3 hours.

596 Seminar in American Writers. 3 hours.

598 Problems in English. 3 hours.

599 Thesis Research. 3 or 6 hours.

599c Maintaining Matriculation. 1 to 6 hours.

699 Specialist Project. 6 hours.

699c Maintaining Matriculation. 1 to 6 hours.

DEPARTMENT OF FOLK AND INTERCULTURAL STUDIES

GORDON WILSON HALL 304

Professor W. Lynwood Montell, Head

AFRO-AMERICAN STUDIES
Instructor: M. White, Director, GWH 313
AMERICAN STUDIES
Assistant Professor: J. Boggs, Advisor, CH 110b
FOLK STUDIES
Professor: L. Montell
Associate Professors: B. Feintuch, C. Guthrie, R. Teske
Assistant Professor: C. Collins
Instructor: M. White

The quest for a wider knowledge and keener appreciation of world culture generally and of regional cultures and societies specifically should be a vital part of the student's academic experience while at Western Kentucky University.

The Department of Folk and Intercultural Studies gives focus and direction to Afro-American Studies, American Studies and Folk Studies, all of which vividly incorporate the spirit and essence of cross-cultural and interdisciplinary approaches to understanding the totality of human experience.

The Folk Studies program sponsors the Folk Studies Society. Membership is open to undergraduate and graduate students alike. A newsletter is published quarterly by the Society and is available free of charge.

Field trips to nearby communities are a normal part of certain courses. Western Appalachia and the Mammoth Cave area afford folk studies students excellent opportunities to view traditional life styles in a living context. Folk Studies 276, Introduction to Folk Studies, and 376, The Folktale, both listed under general education Category F, and Folk Studies 371, Urban Folklore, listed in Category C, all afford the student excellent opportunities to study culture from cross-cultural, interdisciplinary points of view.

MINOR IN AFRO-AMERICAN STUDIES

The minor in Afro-American studies (reference number 305) requires a minimum of 21 semester hours. Required courses are: HIST 259, AFAS 300, 393, six hours from HIST 360, GEOG 466, AFAS 480, 490, SOCLGY 320, 355, 410, LNG 190, HEFL 140, GOVT 327, SC WRK 330, and GEOG 480. The minor in Afro-American studies recognizes an attempt to compress the unique and diverse experiences of the Afro-American into a manageable and definable program of study. The complexity of this topic requires that it be treated interdisciplinarily. Viewed from the cross-disciplinary sense, the Afro-American minor is thus concerned with getting a comprehensive and honest picture of the life and institutions of the American people of African ancestry, and of their role in the economic, social, political, cultural and educational development of the United States.

The person who completes the Afro-American Studies minor will be equipped to do graduate work in this field and will have enlarged perspectives and increased skills for jobs in governmental departments and agencies and with private organizations.

As a related minor on any teacher certification program, Afro-American Studies should add new dimensions to classroom teaching. In fulfilling the minimum requirements for a minor, the student normally should not include more than six hours in any one department. All exceptions must be approved in advance by the Director of the Afro-American Studies Program.

MINOR IN FOLKLORE

The minor in folklore (reference number 362) requires a minimum of 18/21 semester hours. Required courses are: FLK ST 276, nine to twelve hours from FLK ST 278, 376, 377, 476, 477 and six to nine hours of restricted electives selected in consultation with the program director.

In response to the growing importance of cross-cultural studies, an interdisciplinary undergraduate minor is offered in Folklore in order to provide students with opportunities to enrich their general knowledge of the folk traditions and customs of specific societies and culture areas and to develop greater understanding of related forms of human thought and expression.

The Folklore minor has the liberalizing value of any traditional degree program and provides a background for advanced study in any of the social sciences and humanities as well as folklore itself.

Folklore is an approved minor for teacher certification; as such it brings a new perspective to classroom teaching. The teaching minor consists of 21 semester hours.

An 18 semester hours Folklore minor is available under the Arts and Science curriculum.

AMERICAN STUDIES

The primary objective of this program is to provide the student a comprehensive view of American culture. The subject matter of a fully developed American Studies Program is drawn from various disciplines, primarily history, economics, sociology, political science, literature, religion and philosophy. Each of these areas attends upon the others and ultimately provide a meaningful composite for the student. Western's program is in its inceptive stages, but already provision is made for cross-fertilization among the disciplines involved.

There is no degree program in American Studies at this time. The two courses do, however, fulfill general education and certain degree requirements in English, government, and history. For further information, contact the program advisor.

GRADUATE DEGREE PROGRAMS

The Department of Folk and Intercultural Studies offers a Master's degree in Folk Studies and a Master's degree in Folk Studies (Historic Preservation). See the *Graduate College Bulletin* for details. Several non-teaching graduate assistantships are available each year. Inquiries about courses and degree requirements should be addressed to Dr. Lynwood Montell, Graduate Advisor, Gordon Wilson Hall 304.

COURSES OF INSTRUCTION

AFRO-AMERICAN STUDIES

300 American Negro Culture. 3 hours.
Negro life and culture in the United States viewed from a cross-disciplinary perspective. (Every Semester)

393 Afro-American Literature. 3 hours.
A critical study of the contributions of Negro writers to American literature.

480 Directed Independent Study in Afro-American Topics. 1-3 hours.
Designed primarily for advanced students. This course will permit students to pursue selected topics dealing with the life and times of the people of African ancestry in Africa and America. (On Demand)

490 Afro-American Seminar. 3 hours.
Designed primarily for advanced students. This seminar will include topics dealing with the African or American Negro, present or past. (On Demand)

AMERICAN STUDIES

320A American Studies I. 3 hours.
This course is designed to examine elements in the development of American culture. It should also provide a wider cultural appreciation and a greater understanding of the mainstream of American thought. (Fall)

320B American Studies II. 3 hours.
A continuation of American Studies I. (Spring)

INTERCULTURAL STUDIES

450 Foreign Field Studies. 1-6 hours.
The course will focus on significant aspects of the culture under investigation, particularly the fine arts, the economy, the land and geography, the government, the history, the anthropological development, and the language and literature. The emphasis will be on contemporary culture and civilization but with a look toward the past.

FOLK STUDIES

276 Introduction to Folk Studies. 3 hours.
An illustrated study of tales, songs, riddles, proverbs, customs, material culture and folk technology found primarily among peoples of the Western hemisphere. (Every Term)

278 Folk and Popular Literature. 3 hours.
A broad survey of selected themes and situations in oral literature as they are reflected in popular literature through the ages. (Fall)

371 Urban Folklore. 3 hours.
Varieties and characteristics of urban American folklore with special emphasis on legends, jokes, and other lore of modern occupational, immigrant, and ethnic groups. (Every Term)

376 The Folktale. 3 hours.
An examination of the folktale as an art form, both as expression springing from oral traditions of non-literate people and as the reservoir of narrative which has contributed significantly to the literary developments in our society. (Fall)

377 Afro-American Folklore. 3 hours.
Oral, written, and material folk traditions of the Black American, with emphasis on the United States and the Caribbean. (Fall)

379 Topics in Folklore. 3 hours.
A consideration of special topics to acquaint students with significant problems and current interest in folklore. Content will vary from time to time according to the instructor and the apparent needs of the students.

462 Folk Medicine. 3 hours.
This course will review the relationship of folk medicine to scientific medicine in terms of the partial displacement of folk medicine by rational thought, and its persistence in a scientific era as a set of health systems based on survival of alchemy, astrology, witchcraft, folk religion, and other non-scientific modes of thought. (Spring)

463 Intercultural Communication. 3 hours.
(See Communication and Theatre)

470 Museum Procedures and Preservation Techniques. 3 hours.
This course is designed to deal with essential aspects of museums in particular and preservation in general, i.e., collecting, preserving, researching, exhibiting, and interpreting material culture. (Spring)

476 The Ballad. 3 hours.
Study of the ballad as a genre of folklore in the English speaking world. (Spring)

477 Folk Art and Technology. 3 hours.
Folklife research in selected world culture groups, with emphasis on folk crafts, technology, and architecture in the United States prior to their absorption into industrialization. Special reference to northwest European antecedents, sources, and parallels. (Fall)

478 Folklore in Literature. 3 hours.
Readings in world literature from the Bible to the modern novel to discern the various aspects of folklore reflected there and to determine the degree to which unwritten literature has affected origins and development of written literature. (Spring)

489 Internship in Folk Studies. 3 hours.
Practical out-of-classroom experience in a supervised work situation with a cooperating business, industry, social or governmental agency emphasizing application of advanced knowledge and skills in Folk Studies. (Every Term)

GRADUATE COURSES

500 American Folklore. 3 hours.
570 Appalachian Folklore and Folklife. 3 hours.
571 Folk Narrative. 3 hours.
572 Applied Folklore. 3 hours.
573 Seminar in Interpretation of Myth. 3 hours.
576 American Traditional Song. 3 hours.
577 Techniques and Materials in Folklore Studies. 3 hours.
578 Folklore Fieldwork and Oral History. 3 hours.
579 Directed Study and Research in Folklore. 3 hours.
580 Folklore, Conversation, and Communication. 3 hours.
589FS Internship in Folk Studies. 3 hours.
589HP Internship in Historic Preservation. 3 hours.
599 Thesis Research. 3 to 6 hours.
599c Maintaining Matriculation. 1 hour.

DEPARTMENT OF FOREIGN LANGUAGES

IVAN WILSON CENTER FOR THE FINE ARTS, ROOM 253

Professor Carol P. Brown, Head

Professors: P. Hatcher, J. W. Miller, W. Nolan
Associate Professors: J. Babcock, T. Baldwin, R. Martin, R. Padilla
Assistant Professors: D. Kibbee, M. Ritter, C. Scarborough

Becoming acquainted with peoples of other lands through a study of their languages and their cultures is an important and time honored part of a liberal education. In addition to its contribution to the general education of university students, the department offers majors and minors in several languages and serves other departments which require that their majors or minors develop fluency or reading proficiency in another language. Students minoring in Asian Studies or in Latin American Studies may take Russian, Spanish, or Portuguese as appropriate. All majors and minors in the department are certifiable under the Teacher Education program. There are numerous career opportunities for students who develop proficiency in a foreign language, including teaching, government service, social work and international business.

Students who have completed at least two years of the same language in high school may enroll in the third semester of that language: French 220, German 230, Latin 250, Russian 260 or Spanish 270. Students with three or four years of a language in high school may enroll in a 200- or 300-level course. These students should take a departmental examination during their first semester at Western in order to earn credit for the appropriate elementary or intermediate level courses.

Audio visual and electronic learning aids are available to help the student achieve mastery of the language.

The Department of Foreign Languages sponsors several student organizations. Monthly meetings are held by the **Cercle Francais** (French Club), **Der Deutsche Verein** (German Club), the Russian Club, and **La Sociedad Hispanica** (Spanish Club). Chapters of the national honor societies hold periodic meetings: Pi Delta Phi (French), Delta Phi Alpha (German), and Sigma Delta Pi (Spanish). The department also provides an International Film Series for the entire University Community. For study abroad opportunities and internships in international business, refer to the International Education section of this publication.

The elementary courses count toward a major and minor.

Students majoring or minoring in a language should take at least one course each in composition, conversation, civilization and literature.

MAJOR IN FRENCH

The major in French (reference number 665) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree.

MAJOR IN GERMAN

The major in German (reference number 683) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree.

MAJOR IN SPANISH

The major in Spanish (reference number 778) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree.

MINOR IN FRENCH

The minor in French (reference number 365) requires a minimum of 24 semester hours.

MINOR IN GERMAN

The minor in German (reference number 380) requires a minimum of 24 semester hours.

MINOR IN LATIN

The minor in Latin (reference number 405) requires a minimum of 24 semester hours.

MINOR IN RUSSIAN

The minor in Russian (reference number 450) requires a minimum of 24 semester hours.

MINOR IN SPANISH

The minor in Spanish (reference number 464) requires a minimum of 24 semester hours.

GRADUATE DEGREE PROGRAMS

The Department of Foreign Languages offers Master's degrees in French, German and Spanish. See the Graduate College Bulletin for details. Several graduate assistantships are available each year. Graduate assistants normally provide instructional assistance in the language laboratories and sometimes teach a class at the elementary level. Inquiries about courses and degree programs should be addressed to the Graduate Advisor.

FOREIGN STUDY OPPORTUNITIES

Western students may enroll for short terms or for quarter, semester or year-abroad programs at several foreign study centers. See the International Education section of this publication for more information.

Students enrolling in non-listed programs for which credit is desired must secure advance approval from the head of the department offering work of a corresponding nature.

COURSES OF INSTRUCTION

BIBLICAL LANGUAGES

(These courses have corresponding numbers as Religion courses in the Department of Philosophy and Religion.)

382 Biblical Languages I: Introductory Hebrew. 3 hours.

383 Biblical Languages II: Intermediate Hebrew. 3 hours.
Prerequisite: Hebrew 282 or equivalent.

384 Biblical Languages III: Introductory Greek. 3 hours.

385 Biblical Languages IV: Intermediate Greek. 3 hours.
Prerequisite: Greek 284 or equivalent.

FRENCH

122 Reading and Translating French. 3 hours.
No prerequisite
A single semester beginning course for stu-

dents seeking proficiency in reading and translating scientific, technical and literary materials. Especially useful for graduate students wishing to meet research tool requirements. (Spring)

120 Elementary French. 3 hours.
A beginning course designed to teach the four basic skills of understanding, speaking, reading and writing with emphasis on speaking and understanding as well as on cultural aspects of France and other French-speaking nations. (Each Semester)

121 Elementary French (Continued). 3 hours.
Prerequisite: French 120 or one year of high school French.
Continuation of the development of the four basic skills and cultural insights. (Each Semester)

220 Intermediate French. 3 hours.
Prerequisite: French 121 or two years of high school French.
Expansion of grammatical knowledge and practice in oral and written expression. (Each Semester)

221 Intermediate French (Continued). 3 hours.
Prerequisite: French 220.
Continuation of oral and written practice, vocabulary building and introduction to the reading of literary and cultural texts. (Each Semester)

320 French Grammar and Composition. 3 hours.
Prerequisite: French 221.
A comprehensive study of French grammar based on classroom explanation and drill and written translation of texts especially prepared to illustrate grammar under discussion. (Fall)

321 French Conversation. 3 hours.
Prerequisite: French 221.
Exercises in pronunciation, comprehension and composition. Thorough review of language usage. Ample opportunity for conversation. Entirely in French. (Spring, even years)

323 French Civilization and Culture. 3 hours.
Prerequisite: French 221.
Readings, discussion, lectures, films, oral and written reports on different aspects of France and its people and culture. (Spring, odd years)

324 Introduction to French Literature. 3 hours.
Prerequisite: French 221.
This course is intended to develop adequate reading skills to enable the student to succeed in literature courses. Texts from the theatre, poetry, short stories and selections from novels will be read. (Fall)

325 Survey of French Literature I. 3 hours.
Prerequisite: French 324 or equivalent.
Reading of French literary texts representing the masterpieces of this important branch of French civilization; lectures on literary history and criticism. The period covered is from 842 A.D. to the end of the 18th Century. (Spring, odd years)

326 Survey of French Literature II. 3 hours.
Prerequisite: French 324 or equivalent.
See French 325 for description. The period covered is the 19th and 20th Centuries. (Spring, even years)

390 Applied Linguistics. 3 hours.
Prerequisite: French 221 or permission of instructor.
The principles of linguistics applied to the teaching of French. (Alternate Years)

420 Advanced French Composition and Stylistics. 3 hours.
Prerequisite: French 320.
Creative self-expression in written French, refinement of grammatical understanding, introduction to the art of translation and an examination of selected texts to study stylistic devices. (Alternate Years)

421 Advanced French Conversation. 3 hours.
Prerequisite: French 321.
Free classroom discussion on assigned topics and reports on newspaper and magazine articles of current interest. Special attention will be paid to idiomatic expressions. (Alternate Years.)

422 History of the French Language. 3 hours.
Prerequisite: French 221.
A linguistic study of the phonological, morphological, syntactic and lexical changes which turned the Latin spoken in Gaul into modern standard French. No previous training in linguistics is necessary. (Alternate Years)

423 Seventeenth Century French Literature. 3 hours.
Prerequisite: French 325.
A study of French literature of the period, focusing on the works of Corneille, Racine and Molière and the development of Classic theory beginning with Malherbe. (Alternate Years)

425 Nineteenth Century French Literature. 3 hours.
Prerequisite: French 326 or permission of instructor.
A study of Romantic, Realistic and Naturalistic trends in French literature of the nineteenth century, as exemplified in the novel. (Alternate Years)

426 Twentieth Century French Drama. 3 hours.
Prerequisite: French 326 or permission of instructor.
A study of twentieth century French theatre, including principal authors and works, directors and main currents. (Alternate Years)

427 Twentieth Century French Novel. 3 hours.
Prerequisite: French 326 or permission of instructor.
A study of the French novel in this century (includes reading novels by Proust, Gide, Mauriac, Aymé, Camus, and Robbe-Grillet). (Alternate Years)

429 Studies in French Literature or Language. 3 hours.
Prerequisite: Senior standing and permission of instructor.
Topic of study selected in consultation with assigned instructor (may involve literature or language). May be repeated for a maximum of 6 hours credit. (On Demand)

GENERAL MODERN LANGUAGES

(All courses on demand)

190 Chinese. 1 hour.
No prerequisite.
(French, German, Hausa, Indonesian, Italian, Japanese, Portuguese, Russian, and Spanish and other languages are also taught.) Courses numbered 190 may be repeated for a maximum of 6 semester hours. For General Education credit, three hours of credit must be presented. These consist of pronunciation drills, speech patterns, simple readings and cultural information.

229 Major French Writers in Translation. 3 hours.
No prerequisite.
May not be taken for major or minor credit in French.

239 Major German Writers in Translation. 3 hours.
No prerequisite.
May not be taken for major or minor credit in German.

279 Major Hispanic Writers in Translation. 3 hours.
No prerequisite:
May not be taken for major or minor credit in Spanish.

299 Language Families of the Earth. 3 hours.
No prerequisite.
Studies of the possibilities of human speech and of the affinities in structure and vocabulary of the twelve major language families of our planet.

GERMAN

132 Reading and Translating German. 3 hours.
No prerequisite.
A single semester beginning course for students seeking proficiency in reading and translating scientific, technical and literary materials. Especially useful for graduate students wishing to meet research tool requirements. (Fall)

130 Elementary German. 3 hours.
A beginning course designed to teach the four language skills of understanding, speaking, reading and writing with emphasis on understanding and speaking. Extensive use is made of films and other audio-visual aids. (Each Semester)

131 Elementary German (Continued). 3 hours.
Prerequisite: German 130 or one year of high school German.
Further development of the four language skills with continued use of films and other audio-visual aids. (Each Semester)

230 Intermediate German. 3 hours.
Prerequisite: German 131 or two years of high school German.
Conducted mostly in German with stress on vocabulary enrichment and structural accuracy through readings, discussions and short compositions on topics of German life. (Each Semester)

231 Intermediate German (Continued). 3 hours.
Prerequisite: German 230.
Conducted mostly in German and aiming at an active standard vocabulary of approximately 3,000 words and at control of basic structures through readings, reports, compositions and discussions. (Each Semester)

330 German Grammar and Composition. 3 hours.
Prerequisite: German 231.
Develops skill in writing standard German prose. Stress is on vocabulary building, use of dictionary and control of sentence structures. (Spring)

331 German Conversation. 3 hours.
Prerequisite: German 231.
Intensive practice in spoken German aimed at enabling the student to find his way around the physical environment and to function in a social situation. (Fall)

333 Germanic Civilization and Culture. 3 hours.
Prerequisite: German 231.
Survey of the historical background and contemporary way of life of the German-speaking countries of Europe: East and West Germany, Austria and Switzerland. Conducted in German. (Alternate Years)

334 Introduction to German Literature. 3 hours.
Prerequisite: German 231.
Emphasis on major periods, literary types and critical approaches through the study of selected representative works and authors. (Spring, Alternate Years)

390 Applied Linguistics. 3 hours.
Prerequisite: German 231 or permission of instructor.
The principles of linguistics applied to the teaching of German. (Alternate Years)

430 Advanced Written German. 3 hours.
Prerequisite: German 330.
Develops sense of style in selection of vocabulary and sentence structure appropriate to letters, reports, essays and descriptions. (Alternate Years)

431 Advanced Spoken German. 3 hours.
Prerequisite: German 331.
Intensive practice in oral German with the aim of enabling the student to discuss literary, cultural and political topics. (Alternate Years)

432 History of the German Language. 3 hours.
Prerequisite: German 330 or permission of instructor.
Emphasis on the relationship of German to the Indo-European and other Germanic languages and upon the development of modern standard German from the earliest recorded documents. (Alternate Years)

434 Survey of Nineteenth Century German Literature. 3 hours.
Prerequisite: German 334.
An overview of the major writers of Romanticism, Biedermeier and Realism with emphasis on prose and drama. (Alternate Years)

435 Twentieth Century German Literature. 3 hours.
Prerequisite: German 334.
A study of the major German, Austrian and Swiss writers of the twentieth century with emphasis on prose and drama. (Alternate Years)

436 German Literature of the Classical Period. 3 hours.
Prerequisite: German 334.
A study of the outstanding works of Goethe, Schiller and other authors of the late eighteenth and early nineteenth centuries. (Alternate Years)

438 Survey of the German Lyric. 3 hours.
Prerequisite: German 334.
A study of German lyric poetry from the earliest times to the present. Representative works and authors. (Alternate Years)

439 Studies in German Literature or Language. 3 hours.
Prerequisite: Senior standing and permission of instructor.
Intensive readings on a period, genre or author; critical studies, research papers, bibliographical research. May be repeated for a maximum of six hours of credit. (On Demand)

ITALIAN

180 Elementary Italian. 3 hours.
A beginning course designed to develop skills in understanding, speaking, reading and writing and to provide cultural insights. (On Demand)

181 Elementary Italian (Continued). 3 hours.
Prerequisite: Italian 180 or one year of high school Italian.
Continuation of development of four skills and of cultural insights. (On Demand)

LATIN

150 Elementary Latin. 3 hours.
(Fall)

151 Elementary Latin (Continued). 3 hours.
Prerequisite: Latin 150 or one year of high school Latin.
(Spring)

250 Intermediate Latin. 3 hours.
Prerequisite: Latin 151 or two years of high school Latin.
(Fall)

251 Intermediate Latin (Continued). 3 hours.
Prerequisite: Latin 250.
(Spring)

351 Seminar in Latin Language. 3 hours.
Prerequisite: Latin 251 or equivalent. May be repeated for a total of six hours of credit. (On Demand)

396 Mythology. 3 hours.
Prerequisite: Latin 250 or English 101, 102.
Greek, Roman and Norse myths and their influence on art and literature. (On Demand)

397 Etymology and Semantics (Word Study). 3 hours.
Prerequisite: Latin 250 or English 101, 102.
A study of influences of Latin and Greek on roots, prefixes and suffixes; formation of derivatives; emphasis on vocabulary of science. (On Demand)

450 Seminar in Latin Literature. 3 hours.
Prerequisite: Latin 251 or equivalent.
May be repeated for a total of six hours of credit. (On Demand)

PORTUGUESE

140 Elementary Portuguese. 3 hours.
A beginning course designed to teach the four language skills: understanding, speaking, reading and writing and to provide cultural insights. (On Demand)

RUSSIAN

162 Reading and Translating Russian. 3 hours.
A single semester beginning course for students seeking proficiency in reading and translating scientific, technical and literary materials. Especially useful for graduate students wishing to meet research tool requirements. (On Demand)

160 Elementary Russian. 3 hours.
A beginning course designed to teach the four language skills: understanding, speaking, reading and writing, with emphasis on understanding and speaking. (Fall)

161 Elementary Russian (Continued). 3 hours.
Prerequisite: Russian 160 or one year of high school Russian.
Further development of the four language skills. (Fall)

260 Intermediate Russian. 3 hours.
Prerequisite: Russian 161 or two years of high school Russian.
Systematic review of grammar, ample class discussion, controlled compositions, acquisition of new vocabulary through short stories. (Spring)

261 Intermediate Russian (Continued). 3 hours.
Prerequisite: Russian 260.
Conducted mostly in Russian aiming at an improvement of self-expression, compositions, reading of short stories. (Spring)

360 Advanced Conversation. 3 hours.
Prerequisite: Russian 261.
Exercises in pronunciation, comprehension, composition. Thorough review of language usage. Ample opportunity for conversation in Russian. (Fall)

361 Advanced Composition. 3 hours.
Prerequisite: Russian 261.
Controlled compositions, vocabulary expansion, review of grammar. (Spring)

390 Applied Linguistics. 3 hours.
Prerequisite: Russian 261 or permission of instructor.
The principles of linguistics applied to the teaching of Russian. (Alternate Years)

464 Nineteenth Century Russian Literature. 3 hours.
Prerequisite: Russian 261.
Social and artistic trends in Russian life as reflected in works of Pushkin, Lermontov, Gogol, Turvenev, Tolstoy, Dostoevsky and Chekhov. Lectures and discussions mostly in Russian. (On Demand)

465 Soviet Literature. 3 hours.
Prerequisite: Russian 261.
Major fiction writers and literary trends since 1917. Lectures, readings and reports. (On Demand)

469 Studies in Russian Literature or Language. 3 hours.
Prerequisite: Senior standing and permission of instructor.
Research and study in problems relating to either Russian literature or language is provided for individual study or in a special class with varied topics. (May be repeated for a total of six semester hours of credit). (On Demand)

496 Russian Literature in Translation. 3 hours.
Prerequisite: Russian 261 or equivalent and permission of instructor.
(On Demand)

SPANISH

172 Reading and Translating Spanish. 3 hours.
A single semester beginning course for students seeking proficiency in reading and translating scientific, technical and literary materials. Especially useful for graduate students wishing to meet research tool requirements. (On Demand)

170 Elementary Spanish. 3 hours.
A beginning course designed to develop skills in understanding, speaking, reading and writing and to provide cultural insights. (Each Semester)

171 Elementary Spanish. 3 hours.
Prerequisite: Spanish 170 or one year of high school Spanish.
Continuation of development of four skills and of cultural insights. (Each Semester)

200 Introduction to Latin America. 3 hours.
This course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures. Since this course is taught by various departments, see Latin American Studies Advisor for enrollment. Not for major or minor credit.

270 Intermediate Spanish. 3 hours.
Prerequisite: Spanish 171 or two years of high school Spanish.
A systematic review of grammar and development of reading skills. (Each Semester)

271 Intermediate Spanish (Continued). 3 hours.
Prerequisite: Spanish 270.
Further review of grammar and development of reading skills. (Each Semester)

370 Spanish Conversation. 3 hours.
Prerequisite: Spanish 271.
Exercises in pronunciation, comprehension and oral expression. (Fall)

371 Spanish Composition and Grammar. 3 hours.
Prerequisite: Spanish 271.
Controlled written compositions and oral expression. Systematic and intensive review of grammar. (Spring)

373 Hispanic Civilization and Culture. 3 hours.
Prerequisite: Spanish 271.
Survey of historical background and contemporary way of life of countries in which Spanish is spoken. (Spring)

374 Introduction to Hispanic Literature. 3 hours.
Prerequisite: Spanish 271.
Emphasis on major periods, literary types and critical approaches through the study of selected representative works and authors. (Alternate Years)

390 Applied Linguistics. 3 hours.
Prerequisite: Spanish 271 or permission of instructor.
The principles of linguistics applied to the teaching of Spanish. (Alternate Years)

470 Advanced Oral Spanish. 3 hours.
Prerequisite: Spanish 370 or equivalent.
Conversation units, dramatic sketches original oral topics. (Alternate years)

471 Advanced Spanish Syntax. 3 hours.
Prerequisite: Spanish 371 or equivalent.
Examination of selected literary works; original compositions on selected topics. (Alternate Years)

472 Background of Modern Spanish. 3 hours.
Prerequisite: Spanish 271 or equivalent and permission of instructor.
A general history of the Spanish language, stressing the development of sounds and forms, word borrowings and changes in meanings. (Alternate Years)

475 Literature of Spain, I. 3 hours.
Prerequisite: Spanish 374 or equivalent.
A survey of peninsular Spanish literature from the beginnings through the 17th Century. Readings, reports. (Alternate Years)

476 Literature of Spain, II. 3 hours.
Prerequisite: Spanish 374 or equivalent.
A survey of peninsular Spanish literature from the 18th Century to the present. Readings, reports. (Alternate Years)

477 Literature of Spanish America. 3 hours.
Prerequisite: Spanish 374.
A survey of Spanish American literature from colonial times through the contemporary period. (Alternate Years)

479 Studies in Hispanic Literature or Language. 3 hours.
Prerequisite: Senior standing and permission of instructor.
Research and study in problems relating to either Hispanic literature or language, culminating in an approved paper or project. (May be repeated for a total of six semester hours of credit.) (On Demand)

GRADUATE COURSES (FRENCH, GERMAN, SPANISH)

520 Seminar in French Literature or Language. 3 hours.

524 Nineteenth Century French Novel. 3 hours.

526 Modern French Poetry. 3 hours.

529 Seminar in French Literature. 3 hours.

538 Seminar in German Literature. 3 hours.

539 Seminar in German Literature or Language. 3 hours.

570 Literature of Spain's Golden Age. 3 hours.

572 Nineteenth Century Literature of Spain. 3 hours.

575 Twentieth Century Prose (Spanish). 3 hours.

576 Twentieth Century Poetry and Drama (Spanish). 3 hours.

578 Seminar in Hispanic Literature or Language. 3 hours.
(May be repeated for a total of 6 hours of credit.)

590 Comparative Romance Linguistics (French and Spanish). 3 hours.

599 Thesis (French and Spanish). 6 hours.

600 Seminar in College Teaching (French, German, and Spanish credit). 3 hours.

DEPARTMENT OF HISTORY

CHERRY HALL, ROOM 200

Professor Richard Troutman, Head

Professors: J. Baker, J. Bennett, J. C. Crowe, C. Crowe, D. Harrington, L. Harrison, C. Jackson, M. Lucas, J. Minton, W. Montell, F. Murphy, J. Thacker, F. Thompson
Associate Professors: C. Bussey, P. Cook, G. Dillingham, R. Salisbury, R. Stone
Assistant Professors: T. Allsen, J. Bratcher, Helen Crocker, D. Lee, R. Weigel

History is the collective experience of mankind. It provides perspective and knowledge which helps us understand the present; and it presents a hope that we may avoid in the future some of the mistakes which man has made in the past. As the broadest of all academic disciplines, history helps satisfy the curious mind which is not content with the present, but must query the past and attempt to peer into the future. History teaches us how to collect, analyze and use data; such a trained mind is the most practical tool available to the human race.

Because of its breadth, the study of history prepares a person for a considerable number of occupations and professions. One of the most frequently mentioned is teaching—from elementary through the college level. There is, however, a wide variety of other areas open to the student of history: local, state and federal governments, the diplomatic corps, law, professional library work, the national park service, journalism, politics and a host of others. In addition, the business world often looks for those who have training in the liberal arts. In fact the career possibilities are infinite.

Students who major or minor in the liberal arts and secondary education are offered a variety of courses. Courses are offered to meet the general education requirements for all programs. The program in history and government adequately meets the needs of pre-law students.

Students who complete a major, area of concentration or a minor in history and who complete the professional educational requirements can be certified in the Teacher Education program.

Six to 12 hours of German and French are strongly recommended for all history majors.

MAJOR IN HISTORY

The major in history (reference number 695) requires a minimum of 34 semester hours and leads to a Bachelor of Arts degree. Courses required are: History 119, 120, 140, 141 and 280. Of the remaining 21 hours, a minimum of 18 hours in upper division courses are required with at least one upper division course coming from each of the following areas: United States History, European History to 1648, European History since 1648 and Areas Other than Europe or the United States.

MAJOR IN HISTORY AND GOVERNMENT

The major in history and government (reference number 698) requires a minimum of 42 semester hours and leads to a Bachelor of Arts degree. Courses required are: 24 hours of history, including HIST 119, 120, 140, and 141. The remaining 12 hours must be taken in courses numbered 300 or 400 are required with no more than two upper division courses coming from any one of the following areas: United States History, European History to 1648, European History since 1648 and Areas Other than Europe or the United States. The government component requires 18 hours, including GOVT 110, 201, 210, 211, plus six semester hours of courses numbered 300 or 400 with the approval of the department head.

AREA OF CONCENTRATION IN SOCIAL STUDIES

The area of concentration in social studies (reference number 592) requires a minimum of 60 semester hours and leads to a Bachelor of Arts degree. The courses required are distributed as follows: HIST: 24 hours, including HIST 119, 120, 140 and 141. The remaining 12 hours must be taken in upper division courses with no more than two upper division courses coming from any one of the following areas: United States History, European History to 1648, European History since 1648, and Areas Other than Europe or the United States. GOVT: 12 hours, including GOVT 110, 201, 210, and a 3 hour upper division elective. ECON: 6 hours, including ECON 202 and 203. SOCLGY: 6 hours, including SOCLGY 110, and a 3 hour elective. GEOG: 12 hours, including GEOG 101, one of the following courses: 250, 425, or 430; and 6 hours of electives in Regional Geography. In choosing elective courses, the student should keep in mind the requirement that at least 32 hours of credit in the upper division courses are necessary for graduation. Students who complete this program will not be required to offer an additional major or minor for their degree and teacher certification.

MINOR IN HISTORY

The minor in history (reference number 392) requires a minimum of 24 semester hours. Courses required are: History 119, 120, 140 and 141. The remaining 12 hours

must be taken in upper division courses with no more than two upper division courses coming from any one of the following areas: United States History, European History to 1648, European History since 1648 and Areas Other than Europe or the United States.

COURSES OF INSTRUCTION

119 Western Civilization to 1648. 3 hours.
A general survey of the political, social, cultural and economic phases of Western Civilization to 1648. (Every Semester)

120 Western Civilization since 1648. 3 hours.
A general survey of the political, social, cultural and economic phases of Western Civilization since 1648. (Every Semester)

140 The United States to 1865. 3 hours.
A survey of the political, social, cultural and economic phases of American life to the Civil War. (Every Semester)

141 The United States since 1865. 3 hours.
A survey of the political, social, cultural and economic phases of American life since the Civil War. (Every Semester)

280 Techniques in Historical Research and Writing. 1 hour.
An introduction to the study and techniques of historical research and writing. (Every Semester)

UPPER DIVISION COURSES MEETING AREA REQUIREMENTS:

UNITED STATES HISTORY

320a, b American Studies I and II.
Each course 3 hours.
Prerequisites: Junior standing or permission of instructors.
These courses are designed to examine the diverse origins and the decisive elements in the development of American culture. They should also provide a wide cultural appreciation and a greater understanding of the mainstream of American thought. These goals will be accomplished through the coordinated application of numerous viewpoints drawn from the contributing disciplines (a—Fall; b—Spring)

348 United States, 1900-1945. 3 hours.
A study of the period 1900-1945; with special emphasis on the Progressive Movement, the Republican era and the New Deal. Foreign affairs are related to domestic events and policy. (Fall)

349 The United States since 1945. 3 hours.
A study of all phases of United States history since 1945, with particular emphasis upon the student's gaining a better understanding of our present society through the perspective of the recent past. (Spring)

352 The American West. 3 hours.
The role of the West in the political, social, economic and cultural development of the nineteenth century. (Spring)

440 Colonial History of the United States. 3 hours.
The founding and development of the colonies emphasizing political, social, cultural and economic institutions. (Fall)

441 The Formative Period, 1776-1815. 3 hours.
A study of the Confederation, the making of the Constitution and its development through the War of 1812. (Spring)

442 The Age of Jackson, 1815-1850. 3 hours.
A detailed study of social, political and economic events from the War of 1812 through the War with Mexico. (Fall)

443 Civil War and Reconstruction, 1850-1877. 3 hours.
A study of the origins of the war, including an analysis of the military, social, cultural, and diplomatic events, as well as the significant developments of Reconstruction. Occasional field trips to Civil War sites. (Every Semester)

444 The United States: 1870-1900. 3 hours.
A study of industrialization, expansion, immigration, urbanization, organized labor movements and populism. (Fall)

450 Diplomatic History of the United States to 1898. 3 hours.
An analysis of American diplomacy from the colonial period through the Spanish-American War. (Fall)

451 Diplomatic History of the United States since 1898. 3 hours.
An analysis of American diplomacy from the Spanish-American War to the present. (Spring)

452 American Urban History. 3 hours.
The rise of the city from colonial times to the present, focusing on the economic base of urban expansion, the human aspects, the social and cultural scene, the pattern of urban politics, urban services, municipal administration and the image of the city in popular thought. (Fall)

455 American Historiography. 3 hours.
A study of the development of historical writing in the United States. (Fall)

456 Kentucky History. 3 hours.
A study of the political, economic, social and cultural development of the state from pioneer days. Local development is also stressed. (Every Semester)

457 Old South. 3 hours.
A study of economic, political, social and religious institutions prior to 1865. (Fall)

458 New South. 3 hours.
A study of Southern institutional developments from Reconstruction to the present. (Spring)

459 Immigrant in American History. 3 hours.
The role of immigrant groups in the building of the American nation from the colonial period to the present. (Spring)

EUROPEAN HISTORY TO 1789

305 Ancient Greece. 3 hours.
A survey emphasizing the political, cultural, social and economic aspects of Greek civilization. (Every Semester)

306 Ancient Rome. 3 hours.
A survey emphasizing the political, cultural, social and economic aspects of Roman institutions. (Every Semester)

307 The Middle Ages. 3 hours.
A study of political, cultural, social and economic institutions from the fifth century to the fifteenth century. (Fall)

319 Social and Intellectual Heritage of Europe to 1648. 3 hours.
A survey of the social and intellectual development and heritage of Europe from the Greeks to the end of the Reformation, with special emphasis upon the cultural forms created by man. (Fall)

323 England to 1714. 3 hours.
A study of political, constitutional, economic and social developments during the ancient, medieval and early modern period. (Fall)

338 Russia Prior to 1900. 3 hours.
A study of the development of Russia from early times to the pre-Soviet era with special emphasis on the centuries of isolation which separated Russia from the mainstream of European development. (Fall)

417 Age of the Renaissance. 3 hours.
A study of Western Europe during the period 1275 to 1520 with emphasis on political, social and religious developments. (Fall)

418 Age of the Reformation. 3 hours.
A study of Western Europe during the period 1500-1648 with principal attention given to the religious conflicts of that time. (Spring)

419 Tudor-Stuart England. 3 hours.
A study of the principal political, economic, social, religious and cultural developments in British history from the beginning of the Tudor dynasty in 1485 to the end of the Stuart dynasty in 1714. (Fall)

435 European Historiography. 3 hours.
A study of the development of historical writing in Europe with emphasis in the 19th and 20th centuries. (Spring)

EUROPEAN HISTORY SINCE 1789

321 Social and Intellectual Heritage of Europe Since 1648. 3 hours.
A survey of the social and intellectual development and heritage of Europe from 1648 to the present, with emphasis upon the cultural forms created by man. (Spring)

322 Age of Enlightenment. 3 hours.
A detailed study of the social, political and economic events from 1648 to 1789 with primary emphasis upon the developments of Absolutism during the "Old Regime." (Fall)

324 England since 1714. 3 hours.
A study of political, constitutional, economic and social developments since the early eighteenth century and their effects on the British Empire. (Spring)

334 Nineteenth Century Europe. 3 hours.
A study of political, intellectual and socio-economic developments with special emphasis on nationalism, the rise of socialism and the causes of World War I. (Fall - Even Years)

GRADUATE DEGREE PROGRAMS

The History Department offers courses leading to the Master of Arts and Specialist degrees. For more detailed information, consult the Graduate College Bulletin.

335 Twentieth Century Europe. 3 hours.
A study of political, intellectual and socio-economic developments with emphasis on the period since World War I. (Spring)

338 Russia to 1900. 3 hours.
A study of the development of Russia from earlier times to the pre-Soviet era with special emphasis on the centuries of isolation which separated Russia from the mainstream of European development. (Fall)

422 The French Revolution and Napoleon. 3 hours.
A survey of the period with special emphasis on the political, economic and social events leading to the birth of modern France. (Spring)

425 Modern Germany. 3 hours.
A survey of German history from the early nineteenth century to the present. (Fall - Odd Years)

428 England since 1914. 3 hours.
A detailed study of the political, intellectual, cultural and socio-economic developments that transformed England into a welfare state and her empire into a commonwealth of nations. (Fall)

435 European Historiography. 3 hours.
A study of the development of historical writing in Europe with emphasis in the 19th and 20th centuries. (Spring)

438 Twentieth Century Russia. 3 hours.
A survey of the decline of Imperial Russia, the age of Revolution and the maturation of the Soviet state. (Spring)

AREAS OTHER THAN EUROPE OR THE UNITED STATES

360 History of Africa. 3 hours.
Emphasizes the history of sub-Saharan Africa from the earliest times to the present. (Fall)

364 Latin America: Colonial Period. 3 hours.
A study of the political, social, economic and cultural development of Latin America during the three centuries of Spanish and Portuguese domination. (Fall)

365 Latin America: The Republics. 3 hours.
A study of the political, social, economic and cultural developments of Latin American republics from their independence to the present. (Spring)

461 The Far East. 3 hours.
A survey with major emphasis on China, Japan and India in the twentieth Century. (Spring)

464 Latin America and the United States. 3 hours.
An intensive study of the relations between Latin America and the United States. (Spring)

465 The Mexican Republic. 3 hours.
A study of Mexico from 1824 to the present. (Fall)

479 Topics in the Third World. 3 hours.
An intense study of a selected third world topic. (On Demand)

SPECIAL COURSES

The courses in this category count toward meeting major and minor requirements, but do not count toward meeting area requirements.

170 History of Medieval and Renaissance Europe. 3 hours.
(Cross-listed as Humanities 170)
A study of historical developments in Europe from the late Roman Empire through the sixteenth century.

180 History of the Modern Western World. 3 hours.
(Crosslisted as Humanities 180)
A study of political and intellectual developments in Europe and America from 1789 to the present.

190 History of Ancient Greece and Rome. 3 hours.
(Cross-listed as Humanities 190.)
A survey of historical developments within the culture of ancient Greece and Rome.

259 The Negro in American History. 3 hours.
American Negro history and culture are considered within a chronological framework, with emphasis placed on the contributions to the totality of American life and thought made by members of the black race. (Fall)

299 Introduction to Military History. 3 hours.
The study of the development of warfare from the earliest times to the present. Emphasis will be placed on the modern period and the development of weapons, tactics, and strategy. (Spring)

390 Topics in History. 3 hours.
Detailed study of selected topics in history. (On Demand)

399 Twentieth Century Military History. 3 hours.
Provides an understanding of warfare as it has been practiced in the twentieth century. Emphasis will be placed on the widening scope of war as well as the traditional aspects. The psychological, technological and scientific aspects will be covered. (Spring)

480 History of Science to 1815. 3 hours.
A study of the developments in science with emphasis on the basic research tradition from the ancient world to 1815. (Fall)

481 History of Science Since 1815. 3 hours.
A study of developments in science with emphasis on the basic research tradition since 1815. (Spring)

499 Advanced Individual Study. 3 hours.
Prerequisites: 3.0 average in at least 21 hours of history.
A research problem or intensive readings directed by a faculty member. (On Demand)

GRADUATE COURSES

500 Cultural and Social Aspects of American Life. 3 hours.
Open to Elementary Education Graduates. (On Demand)

501 European History for Secondary Teachers. 3 hours.
(On Demand)

502 United States History for Secondary Teachers. 3 hours.
(On Demand)

515 Nineteenth Century Britain. 3 hours.
(Spring)

521 The United States, 1901-1945. 3 hours.
(On Demand)

525 Social and Intellectual History of Nineteenth Century America. 3 hours.
(On Demand)

526 Social and Intellectual History of Twentieth Century America. 3 hours.
(Spring)

527 Social and Intellectual History of Nineteenth Century Europe. 3 hours.
(Fall)

599 Thesis Research. 3 hours.
(On Demand)

599 Thesis Research. 6 hours.
(On Demand)

605 Seminar in Ancient History. 3 hours.
(On Demand)

606 Seminar in European History. 3 hours.
(On Demand)

619 Seminar in U.S. Diplomatic Relations, 1914-1945. 3 hours.
(On Demand)

622 Seminar in Western United States History. 3 hours.
(On Demand)

630 Seminar in American History. 3 hours.
(Every Semester)

631 Seminar in Kentucky History. 3 hours.
(On Demand)

650 Specialist Project. 3-6 hours.
(On Demand)

DEPARTMENT OF JOURNALISM

DOWNING UNIVERSITY CENTER, ROOM 132

Professor David B. Whitaker, Head

Associate Professors: R. Adams, R. Blann, J. Highland
Assistant Professors: J. Ausenbaugh, C. Jordan, M. Morse, C. Stringer
Instructors: H. Allen, R. Baker, J. Corn, W. McKeen

The Department of Journalism offers majors in advertising, journalism, journalism education, photojournalism, and public relations. No profession demands more varied knowledge than does journalism. The handling of news demands knowledge of the sweep of our culture.

Journalism has been offered at Western for more than 40 years, and on Jan. 1, 1977, the University created a department of journalism.

The faculty has seen this as a basic commitment to educate students in the responsibilities and skills of the professional journalist. It also sees a broader commitment to advance journalism through analysis and criticism and through special programs to serve the needs of the state's communication media.

Although journalism must be in the liberal tradition, writing and editing remain at the heart of the curriculum. The Bachelor of Arts degree with a major in journalism is a professional degree and is the foundation of the department.

Western's concept of journalism education involves students in the practical work of the media. Students may gain laboratory experiences by working on the College Heights Herald, the campus newspaper, and the Talisman, the yearbook, or through internships on professional publications.

In addition, membership is available in campus chapters of the Society of Professional Journalists, Sigma Delta Chi, the National Press Photographers Association, The Public Relations Student Society of America, and Alpha Delta Sigma/American Advertising Federation.

Students may also become involved on departmental committees and the policy and operating board of student publications. Those experiences help students develop a competency that better enables them to deal with this profession.

The journalism student must be well grounded in the humanities, social sciences and natural sciences. The department has developed its degree program in such a way that students divide the 128 hours required for graduation on a 25-75 percent basis between journalism and the liberal arts and sciences.

MAJOR IN JOURNALISM

The major in journalism (reference number 716) requires 33 semester hours and leads to the Bachelor of Arts degree. Of the 33 hours, 27 semester hours are specifically required and six hours are chosen from restricted electives. (Hours in journalism and communication taken above the 33 required must be added to the 128 hours needed for graduation.)

In addition to meeting institutional requirements for graduation, the journalism major must have a minor or second major in at least one of the following: agriculture, business administration, economics, English, folk studies, history, languages, philosophy, government, sociology, psychology, religion, mathematics, and the sciences.

The specific objectives of the journalism program are:

1. To prepare students for professional careers in newspaper journalism.
2. To instill in students a high degree of professionalism, which consists principally of practical competence and ethical understanding.
3. To enhance the students' understanding of the role of the press in a democratic society.

Courses Required for a Major in Journalism are JOUR 201, 202, 231, 301, 321, 323, 401, 411, 425. In addition, the journalism major must elect six hours from the following restricted electives: JOUR 327, 341, 343, 421, 423, 438, 491 and BR COM 365.

MAJOR AND MINOR IN JOURNALISM EDUCATION

The major in journalism education (reference number 717) requires a minimum of 33 semester hours and leads to a Bachelor of Arts degree. The major fulfills state requirements for certification to teach journalism in grades 7-12. Seven courses (21 semester hours) are specifically required and four courses (12 semester hours) may be selected from a list of restricted electives.

The minor in journalism education (reference number 402) requires a minimum of 21 semester hours. These 21 semester hours are those required for the major. The minor also meets state certification.

Courses required for Journalism Education are: JOUR 201, JOUR 202, 301, 401, 231, 327, and 427. For the major, four more courses must be selected from the following: JOUR 321, 323, 341, 411, 425, 491 and BR COM 266 and 365.

Students must also meet all other certification requirements of the State Department of Education.

MAJOR IN PHOTOJOURNALISM

The major in photojournalism (reference number 750) requires 33 semester hours and leads to the Bachelor of Arts degree. Of the 33 hours, 27 semester hours are specifically required and six hours are chosen from restricted electives. (Hours in journalism and communication taken above the 33 required must be added to the 128 hours needed for graduation.)

With a tradition of highly skilled graduates and recent additions of facilities and courses, Western's photography program is developing a reputation as one of the nation's finest. The program is regarded as an outstanding adjunct of the journalism program, and it has contributed greatly to the high quality of the University publications, the College Heights Herald and the Talisman.

The department operates black-and-white and color darkroom facilities for students taking photography courses. In addition, a darkroom for the publications photographers is operated in the Office of University Publications.

A minor must be selected in consultation with the students major advisor. Recommendations generally will be made from the following disciplines: sociology, folk studies, art, industrial technology, government, history, psychology, English or the sciences.

The specific objectives of the photojournalism department are:

1. To develop the artistic, technical and personal qualities of those who pursue a professional career in photojournalism.
2. To develop a background for understanding the role of photojournalism in shaping and reflecting contemporary society.
3. To provide instruction in photographic theory, principles and practice for the student in any area of scholarly pursuit where such knowledge is essential or desirable in improving his understanding and abilities.

Required Courses for a Major in Photojournalism are: JOUR 201, 202, 301, 401, 231, 321, 331, 337, and 438. In addition, the photojournalism major must elect 6 hours from the following restricted electives: BR COM 266 or 276, 376; JOUR 323, 341, 343, 345, 351, 425, 439, and 491.

MAJOR IN PUBLIC RELATIONS

The major in public relations (reference number 763) requires a minimum of 36 semester hours and is distinctive among few U.S. universities in leading to a Bachelor of Arts degree.

Students are offered an accurate view of the public relations professions and the many demands on the PR practitioner to develop an understanding of how public relations functions and how the various techniques are employed in public relations communications.

Students receive in-class and laboratory experiences in planning public relations programs and in preparing materials for print, oral, audio-visual and broadcast presentations. Photography, graphic arts, layout and design and the many oral, audio-visual and broadcast techniques are studied for the way each applies to public relations. To this are added studies of communications theories and individual and group behavior.

Operating on the premise that it does not do a student much good to learn to communicate unless he has something to say, departmental faculty require a broad program of study. In addition to the General Education requirements of the university and the 36-hour major, students must select an appropriate content specialty or area of concentration from the many interdisciplinary and departmental options, suggested by three broad areas: business and industry, community services and government affairs. To assure a broad educational experience, second majors and minors exclude advertising, mass communications, broadcast, news-editorial (journalism) and photojournalism.

Credits in excess of 36 hours in journalism and communications must be added to the 128 hours required for graduation.

Required courses for the public relations major: Jour 201, 351, 353, 481P, 491P, 202, 323, 343, 425 or 321, and Br Com 461. In addition, the public relations major must select two courses (including at least one basic production course*) from the following restricted electives: Br Com 261*, 266*, Jour 231*, 301, 341, 349, and 425 or 321. Also, students must complete Br Com 161, Econ 203 and one course in statistics from the following: Math 203, Econ 206, Psych 201, or Soc 350. These courses may complete general education requirements.

MAJOR IN ADVERTISING

The major in advertising emphasis (reference number 727) requires 36 semester hours and leads to a Bachelor of Arts Degree. The advertising major in the department of journalism is designed to prepare students for advertising careers in media, business and advertising agencies.

With the help of a faculty advisor, a student designs a plan of study that is compatible with the student's unique talents. Within the advertising program, a student may choose either a multi-media or print focus, depending on the student's interests and career goals. The student also chooses a double major or minor that will complement the student's interests and abilities.

A minor must be selected in consultation with the student's major advisor. Selections often suggested include business administration, art, English, psychology, sociology, textiles and clothing and industrial technology.

The advertising student grows from a strong foundation, but the student needs practical experience to effectively compete for a job upon graduation. The advertising emphasis offers students many ways to obtain that experience, including class projects, internships, ad club activities and work experience on the campus newspaper.

Students may gain practical knowledge on the College Heights Herald. Through the Herald, students develop skills in copy, design, sales and production.

Other practical experience is acquired in advertising through the production of radio and television commercials. A graphics lab is provided for print production and other graphics activities.

Students who take advantage of these experiences leave with a portfolio and resume as proof of their acquired knowledge and abilities.

The advertising emphasis has five objectives:

1. To acquaint the student with important concepts, methods, theories, and knowledge of advertising and related disciplines.
2. To provide the student with training in procedures for sound analysis of advertising opportunities and problems.
3. To develop the student's ability to present well-reasoned conclusions and recommendations.
4. To provide opportunities to apply understandings of concepts, methods and implementation of specific advertising functions.
5. To develop in students the foundation for continued self-education and development.

Courses required for a major in advertising are: JOUR 201, 202, 301, 401, 341, 349, 481A, and Bus 320. (Prerequisites for Bus 320 are Econ 202 and 203).

In addition, the advertising student must elect 12 hours from one of the following areas of emphasis:

Multi-Media focus (Courses are chosen in consultation with advisor. At least six hours must be taken in upper level courses.) Br Com 261, 266 and 276. Jour 231, 343, 345, 347, 351 and 491A.

Print focus (*Required, plus two other courses.) Jour 343* and 345*, Jour 231, 331, 344, 351 and 491A.

COURSES OF INSTRUCTION

201 Journalism and Society. 3 hours.
A study of Journalism, advertising, public relations and allied topics. Includes consideration of current practices, history, legal restrictions and obligations, basic theory and career opportunities.

202 Basic Reporting. 3 hours.
A beginning course in reporting and writing with emphasis on journalistic style and grammar, basic news story structure, the interview, the coverage of speeches and meetings, and elementary feature writing. (Every Semester)

231 Basic Photography. 3 hours.
Designed to introduce students who have no background in photography to the mechanical procedures of basic black and white photography. Numerous photographic projects. (Every Semester)

301 Press Law and Ethics. 3 hours.
Prerequisites: Br Com 201 and Jour 202.
An in-depth study of concepts basic to freedom of expression, with emphasis on libel, privacy, free press-fair trial guidelines, access to government information, and obscenity. Attention is given to attendant ethical considerations. (Every Semester)

321 Public Affairs Reporting. 3 hours.
Prerequisite: Jour 202.
A professional newspaper course which focuses on the news coverage of the police department, the Kentucky judicial system, municipal government, county government and state government. In addition, students are assigned reporting beats for the College Heights Herald. (Every Semester)

323 Newspaper Editing. 3 hours.
Prerequisite: Jour 321.
A course of basic instruction in copy editing and headline writing, as well as an introduction to picture handling, cutline writing, and the use and abuse of the language. (Every Semester)

327 School Publication. 3 hours.
A study of the history and function of school publications, with emphasis placed on editorial principles, layout and design, copy and photography, through analysis and experience. Investigation of the role of editors and publishers in school publications. Active participation in the operation of the Western Kentucky Talisman. (Fall)

331 Intermediate Photography. 3 hours.
Prerequisite: Jour 231.
A course in the further study of photography with emphasis on elements of composition and instruction in advanced darkroom techniques. (Every Semester)

337 Photojournalism. 3 hours.
Prerequisites: Jour 231, 331, 202 and 321.
A study of the concepts of photojournalism and a close examination of the works of prominent photojournalists. Also practical work in developing ideas photographically and making a photographic essay. (Fall)

341 Principles of Advertising. 3 hours.
A survey course in the fundamental principles and practices of mass media advertising, including study of the techniques of creating advertisements, functions of advertising agencies, budgets, media selection, research and other topics. (Every Semester)

343 Print Design, Production and Typography. 3 hours.
Introduction to creative and practical aspects of designing and preparing materials for print media. Includes design, layout, typography, and illustrations for preparing newspaper, magazine, and advertising materials for various print processes. (Every Semester)

344 Retail Advertising. 3 hours.
Prerequisite: Jour 341.
A study of consumer advertising at the retail level, with emphasis on newspaper advertising. Includes use of other media. Investigation into the roles of retail store advertising personnel, media advertising personnel, and their combined efforts in planning and producing effective retail advertising. (Fall)

345 Print Advertising. 3 hours.
Prerequisites: Jour 341 and 343.
A practical course in the creation of advertisements in the print media. Includes considerations of readership, product or service, theories, practices and appeals. (Spring)

347 Broadcast Advertising. 3 hours.
Prerequisites: Br Com 266 and Jour 341.
A practical course in the creation of advertisements for the electronic media. Includes consideration of audiences, product or service, theories, practices and appeals. Experience preparing materials for projects produced by class in the university status. (Spring)

349 Advertising Media. 3 hours.
Prerequisite: Jour 341.
Study and evaluation of principal advertising media, including newspapers, magazines, trade publications, radio, television, outdoor and novelty. Includes consideration of media and audiences, media rates, budgeting, scheduling and evaluations. (Spring)

351 Public Relations. 3 hours.
A survey course in the fundamental principles, problems, and practices of mass-mediated communication activities relating industrial, business, educational, social welfare and other institutions to their respective publics. Practice in designing and evaluating programs to solve specific problems. (Every Semester)

353 Public Relations Communications. 3 hours
Prerequisites: Jour 351 and 343.
Use of tools and techniques to support public relations programs. Attention is given to objectives, content, style, and graphic presentation to interpret organizational policies to internal and external publics through mass and specialized media. (Fall)

401 American Press History. 3 hours.
Major events and personalities in the development of print and electronic journalism, advertising and public relations from Gutenberg to the present, with future projections. Analysis of contemporary journalism in the context of its history. (Every Semester)

411 Current Issues in Mass Communications. 3 hours.
A senior-level seminar designed as a capsule course for journalism students focusing on a variety of topics including, but not limited to, access to the media, protection of confidential sources, objectivity, fairness, the media influence on the decision-making process, and the new technology. (Every Semester)

423 Advanced Editing. 3 hours.
Prerequisite: Jour 323.
A course of advanced instruction in copy editing and headline writing, as well as design and layout of professional newspapers. (Every Semester)

425 Editorial and Feature Writing. 3 hours.
Prerequisites: Jour 202 and 321 or consent of instructor.
A professional course that emphasizes editorial thinking and writing and column writing, also a course designed to teach the writing and marketing of feature articles for magazines and newspapers. (Every Semester)

427 School Journalism. 3 hours.
Prerequisite: Senior or graduate standing.
A course for school teachers of mass communications, journalism or broadcast—entire courses or units within courses—and for advisors to school newspapers or broadcasting facilities. Designed to familiarize teachers at all levels with the processes and problems of the mass media in our nation, the responsibility of advisors to school publications and broadcasting facilities and the materials and resources available to support mass communications instruction programs. (Fall, First Bi-term; Summer Semester)

438 Photo Editing. 3 hours.
Prerequisites: Jour 231 and 331 or 323.
A study of the technical and aesthetic qualities of photographs and how these factors affect editorial decisions concerning the use of pictures in publications. Practical work in layout and design and other duties of a newspaper or magazine picture editor. (Spring)

439 Color Photography. 3 hours.
Prerequisites: Jour 231 and 331.
A study of the principles of color photography in both the taking and processing areas. Special emphasis will be given to lighting, color, theory, sensitometry, and aesthetics of color composition. Both negative and positive color will be considered. Required laboratory. (Every Semester)

481 A & P Problems in Mass Communication. 3 hours.
Prerequisite: 18 hours of journalism.
Study of contrived and real problems involving research, planning, and implementation of programs in the areas of advertising (A) and/or public relations (P). (On Demand)

491 Internship. 3 hours.
Prerequisite: 18 hours of journalism.
Professional experience internship on a professional or organization medium for a fixed period of time, conforming to minimums established by sequence heads. Follow-up may consist of seminars at which participants share their experiences and write reports on internships. (Fall)

GRADUATE COURSES

427G School Journalism. 3 hours.
Prerequisite: Senior or graduate standing.
A course for teachers of mass communications, journalism or broadcast—entire courses or units within courses—and for advisors to school newspapers or broadcasting facilities. Designed to familiarize teachers at all levels with the process and problems of the mass media in our nation, the responsibility of advisors to school publications and broadcasting facilities and the materials and resources available to support mass communications instruction programs. (Fall, First Bi-term; Summer Session)

481G A & P Problems in Mass Communications. 3 hours.
Prerequisite: 21 hours.
Study of contrived and real problems involving research, planning, and implementation of programs in the areas of advertising (A) and/or public relations (P). (On Demand)

DEPARTMENT OF MUSIC

IVAN WILSON CENTER FOR THE FINE ARTS, ROOM 351

Professor Wayne Hobbs, Head

Professors: B. Beach, K. Campbell, H. Carpenter, S. Kersenbaum, V. Lezhnev, D. Livingston, E. Pease, O. Pauli, T. Watson
Adjunct Professor: L. Gregorian
Associate Professors: J. Godfrey, V. Hale, D. Pounds
Assistant Professors: E. Alford, R. Morriss, B. Pease, C. Simmons
Instructor: D. Kelsey

The Department of Music is engaged in the education and training of professional musicians and teachers of music. Music may also be studied as an area of concentration within a diversified liberal arts program or as a minor. Opportunities are provided for the general university student to participate in the performance of music through various instrumental and vocal performing groups and through private music study and to develop an appreciation for art, music, literature. Western Kentucky University is a full member of the National Association of Schools of Music.

Students wishing to pursue a music degree (including double majors) should have pre-college training in their principal or major performing instrument or voice and be able to read music fluently. Some basic keyboard ability is helpful but not mandatory.

Entering freshmen and transferring students are required to take placement examinations in rudiments (scales, keys, intervals, triads, general notation) and music reading, performance (principal or major instrument or voice) and piano. Deficiencies can be removed through remedial placement except in the case of auditions for the Bachelor of Music in Performance.

The Department of Music offers areas of concentration, a double major, and a minor as shown in the sections which follow.

AREA OF CONCENTRATION IN PERFORMANCE

The area of concentration in performance (reference number 585) requires a minimum of 71 hours and leads to the Bachelor of Music degree. This program provides preparation for performance and studio teaching careers. It is available in voice, piano, organ, classical guitar and all standard band and orchestral instruments. Requirements are:

Music Theory and Literature: MUSIC 100, 101, 200, 201, 402, 430 (9 hours, including 20th Century Music).
Applied Music: Applied Music Major through MUSIC 457, MUSIC 459 (Recital), Ensembles (4 hours).
Music Electives: 12 hours selected from Orchestration, Composition, Conducting, Church Music, Counterpoint II and Ensembles.
General Education: Must include MUSIC 120 (Music Majors' section), 326, 327 and PH AST 130 (Acoustics).

AREA OF CONCENTRATION IN MUSIC EDUCATION

The area of concentration in music education (reference number 584) requires 56-58 semester hours of music, 20 semester hours of professional education and leads to the Bachelor of Music degree. This program gives teacher certification in instrumental, vocal and classroom music in grades K-12 of the public schools. Requirements are:

Music Theory and Literature: MUSIC 100, 101, 200, 201, 430 (20th Century Music), and 407.
Applied Music: Applied Music Principal through MUSIC 454, MUSIC 218, 318, 152 (voice principals only), 162,

163, 164, 165, 166 and Ensembles (6 hours). Courses in the series 162-166 may be waived upon demonstration of appropriate proficiency.
Music Education: MUSIC 212, 314, 415 and 416 (instrumental principals only).
Professional Education: SEC ED 280, 340, 403, 490 and PSY 320.
General Education: Must include MUSIC 120 (Music Majors Section), 326, 327 and PH AST 130 (Acoustics).

DOUBLE MAJOR IN ELEMENTARY EDUCATION AND ELEMENTARY MUSIC

The double major in elementary education and elementary music (reference number 735) leads to the Bachelor of Science degree. This program gives certification for general classroom teaching and music in the elementary grades (1-8) only. Nine semesters are normally required for the double major. Students should contact the Music Department for assignment of an advisor immediately upon entrance into this program. Requirements are:
Applied Music: 16 hours, MUSIC 218.
Music Theory and Literature: MUSIC 100, 101, 120 (Music Majors Section), Literature elective (3 hours).
Music Education: MUSIC 212 and 314.
Professional and General Education: See Elementary Education Curriculum.

AREA OF CONCENTRATION IN MUSIC (LIBERAL ARTS)

The area of concentration in music (reference number 583) requires 48 hours and leads to the Bachelor of Arts degree. Within this area of concentration an emphasis may be obtained in History and Literature, Theory and Composition or Performance. This program provides a strong liberal arts education. The performance option is a non-professional program. Requirements are:
Music Theory and Literature: MUSIC 100, 101, 200, 201, 402 and 407.
Emphasis: Select either Music History and Literature—MUSIC 430 (9 hours) and 13 hours of Applied Music (including Conducting) or Performance—20 hours of Applied Music (including Conducting).
General Education: Must include MUSIC 120 (Music Majors Section), 326, 327 and PH AST 130 (Acoustics).

AREA OF CONCENTRATION IN PERFORMING ARTS

The area of concentration in performing arts (reference number 588) requires a minimum of 60 semester hours and leads to the Bachelor of Fine Arts degree. This area combines study in music, theatre and dance, allowing for an emphasis in one of the three. For detailed requirements see the listing in the Department of Communication and Theatre.

MINOR IN MUSIC

The minor in music (reference number 423) requires a minimum of 24 semester hours. Requirements are:
Theory: MUSIC 100, 101.
Music History and Literature: 6 hours.
Applied Music: Applied Secondary—4 hours, Ensemble—2 hours.
Electives: 6 hours selected from Conducting, Theory, Literature and Composition.

ADDITIONAL BACCALAUREATE DEGREE REQUIREMENTS

1. Students pursuing the Bachelor of Music and Bachelor of Arts degrees are required to enroll for private instruction in the principal or major instrument or voice during each semester until requirements have been fulfilled.
2. Students matriculating for the Bachelor of Arts (Performance) will present a half hour recital. Students matriculating for the Bachelor of Music (Performance) will present a one-hour recital. Students matriculating for the Bachelor of Music (Music Education) must perform at least one time each semester on Friday recital labs during their last four semesters. In case of extenuating circumstances, the appropriate applied faculty may waive this requirement in any given semester. Music education majors may perform a portion of a junior and/or senior recital if approved by the appropriate applied music jury at least one full semester prior to the anticipated performance date. An appropriate recital certificate will be awarded by the Department of Music to music education majors who perform junior and/or senior recitals.
3. All students pursuing an area of concentration or a major in the Department of Music (including double majors) are required to pass a piano proficiency examination or complete the fourth semester of group piano. A grade of "C" or better must be maintained for each semester of group piano until the completion of the fourth semester.
4. Students working toward the Bachelor of Music or Bachelor of Arts (Performance) degrees are required to be in 2 ensembles each semester except for the semesters of the senior year in which practice teaching and the senior recital are undertaken. In these semesters, the requirement is reduced to one. Double majors are required to participate in one ensemble each semester except for the semester in which student teaching is undertaken. String majors and principals are required to be in Orchestra. Instrumental majors and principals are required to be in Band. They may also be required to be in Orchestra or Brass Ensemble. Music Education majors with instrumental principals are required to be in Choral Union the two semesters of their junior year. Students are expected to appear in departmental recitals.
5. Students (including double majors) are required to attend a specified number of departmental and university sponsored recitals and concerts each semester. Students who fail to fulfill recital attendance requirements receive an "X" in Applied Music. This may be removed during the following 12-week period upon make-up of the recitals missed.
6. Departmental policies and regulations are to be found in the student handbook which is revised each year. These policies and regulations supersede the catalog.

GRADUATE STUDY

The Master of Music Degree in Performance provides professional training in the area of music for those who seek a career in performance or in college and private applied teaching.

The Master of Arts degree in Education with a major in Music offers a flexible schedule of education, music education and music courses designed to broaden the public school teacher's background in all three areas. Up to 21 hours in music may be elected with nine in education.

Assistantships are available to outstanding graduate students. For further information contact the Head of the Music Department.

MUSIC FEES

Individuals or small group instruction in voice or musical instrument:
One half-hour private lesson or equivalent per week ..... $22 Per Semester
Two half-hour private lessons or equivalent per week ..... $37 Per Semester
Three half-hour private lessons or equivalent per week ..... $50 Per Semester
Practice room fees:
One hour per day with piano ..... $5 Per Semester
Two hours per day with piano ..... $7 Per Semester
Three hours per day with piano ..... $8 Per Semester
Rent on orchestral instruments ..... $5 Per Semester
Locker Fee (per semester) $1

SUMMER MUSIC FEES

Lessons:
One half-hour private lesson or equivalent per week ..... $11 Per Summer Session
Two half-hour private lessons or equivalent per week ..... $18 Per Summer Session
Three half-hour private lessons or equivalent per week ..... $26 Per Summer Session
Practice room fees:
One hour per day ..... $3 Per Summer Session
Two hours per day ..... $4 Per Summer Session
Three hours per day ..... $5 Per Summer Session

COURSES OF INSTRUCTION

MUSIC THEORY AND COMPOSITION

90 Fundamentals of Music. 3 hours.
Pitch, rhythm, notation, scales, intervals, triads. (Fall)

100 Theory I. 3 hours.
Prerequisite: Adequate training in Music Fundamentals or Music 90. Theory Placement Exam.
Thorough training in the melodic, harmonic and rhythmic elements of music. Triads, intervals, keys, scales, cadences, notation, rhythmic reading, sight singing, melodic and harmonic dictation, keyboard harmony. (Fall and Spring)

101 Theory II. 3 hours.
Prerequisite: MUSIC 100.
Continuation of melodic and harmonic dictation. Dominant seventh chords, modal scales, key relationships, modulation and the study of four-part writing. Special drills in keyboard harmony. (Fall and Spring)

200 Theory III. 3 hours.
Prerequisite: MUSIC 101.
Study of the harmonic technique of the Eighteenth and Nineteenth Centuries. Harmonic dictation using non-harmonic tones and all seventh chords; four-part writing, modulation, keyboard harmony. (Fall and Spring)

201 Theory IV. 3 hours.
Prerequisite: MUSIC 200.
Continuation of Theory III drills. Chorale harmonization, altered chords, dictation of chorales. Contrapuntal techniques of the Eighteenth Century. (Spring)

402 Counterpoint I. 3 hours.
Prerequisite: MUSIC 201.
A course in Sixteenth Century polyphony. A study of the melodic and contrapuntal principles of style and form in Sixteenth Century choral music. Students compose two- and three-part compositions with and without text. (Alternate Fall Semesters)

403 Counterpoint II. 3 hours.
Prerequisite: MUSIC 402.
Continuation of Counterpoint I. Original compositions for three, four and five voices in the Sixteenth Century style. (Alternate Spring Semesters)

304 Analysis of Musical Form. 2 hours.
Prerequisite: MUSIC 200.
A study of the structure of music from the simple song form through the cyclical and contrapuntal forms. (Spring)

407 Orchestration and Band Arranging. 3 hours.
Prerequisite: MUSIC 201.
A study of the characteristics and techniques of the various orchestra and band instruments. Practical experience in scoring for full symphonic orchestra and symphonic band. Performances given for selected orchestrations and arrangements. (Fall)

206 Composition. 2 hours.
Prerequisite: Consent of the instructor.
Study and assignments will depend on previous background and creative ability. (Fall and Spring)

306 Composition. 2 hours.
Prerequisite: Consent of the instructor.
This course presupposes considerable background and experience in creative writing. (Fall and Spring)

406 Composition. 3 hours.
Prerequisite: Consent of the instructor.
A continuation of Composition 306 with emphasis on the larger forms. (Fall and Spring)

MUSIC EDUCATION

110 Introduction to School Music. 3 hours.
An initial course for school teachers and administrators. Aims and objectives of school music; musical fundamentals, methods and terminology; presentation of rote songs; correction of non-singers; discriminative listening; repertory of songs; music methods. (Fall and Spring)

113 Music in Recreation. 3 hours.
An initial course in the planning and development of music in community and state recreation programs and a study of their importance from a social and psychological standpoint. Descriptions of programs in operation and the instructional techniques and resources for implementation are included.

211 The Teaching of Music in the Elementary School. 3 hours.
Prerequisite: MUSIC 110 or equivalent.
Child voice and song repertory, singing with syllables, rhythmic activities, sight reading, part singing, listening lessons, toy band and creative activity. (Fall and Spring)

212 Music in the Elementary Curriculum. 3 hours.
A course for music majors and minors in elementary music methods as they are related to the general curriculum in the elementary school. Rote song presentation, rhythmic activities, singing games, folk dances, song dramatizations, introduction of sight reading, part singing, pre-band and pre-orchestral instruments. A survey of the general elementary curriculum will be made to determine the function of music in the elementary school. (Spring)

314 General Music in the Secondary Schools. 2 hours.
Training the music teacher to provide orientation experiences in the area of General Music. How to develop music knowledge and understandings in those boys and girls in the junior and senior high schools who are non-performers. (Fall)

415 Choral Methods. 3 hours.
A course designed to furnish choral conductors with materials and methods of organizing, training and preparing vocal groups for performance. Special attention given to program building. (Fall and Summer)

416 Instrumental Methods. 3 hours.
Organization of the school instrumental program; problems, materials and program planning for the school orchestra and band from the grades through high school; special problems in connection with concerts, festivals, materials and administrative details. (Spring)

MUSIC HISTORY AND LITERATURE

120 Music Appreciation. 3 hours.
A survey of music from early to modern times. The course aims to widen the musical horizons and receptivities of the general college student and to make him a more

discriminating listener. Concerts, radio and television programs are assigned for special listening. No formal background is required. (Fall, Spring and Summer)

225 Music Since 1900. 3 hours.
Prerequisite: MUSIC 120 or consent of the instructor.
A survey of the principal trends in music since 1900 including American Music. (Alternate Spring Semesters)

326 The History of Music I. 3 hours.
Music history from early times to Bach and Handel. Assigned readings and recorded illustrations (Fall and Alternate Summers)

327 The History of Music II. 3 hours.
Music history from Bach and Handel to the present. Assigned readings and recorded illustrations. (Spring and Alternate Summers)

328 Church Music. 2 hours.
A survey including history, philosophy, administration, hymnology, the Choir and Anthem Literature. (Alternate Spring Semesters)

430 Music Literature. 3 hours.
A variable topic course which may be taken more than once for credit. Typical topics are as follows:
Medieval and Renaissance Music
Keyboard Literature
The Symphony
20th Century Music
Opera
Baroque Music
19th Century Music
Chamber Music
Music of the Americas
Music of the World's Peoples
The Music of Theatrical Dance I, II
(Fall, Spring, Summer)

431 Musical Theatre. 3 hours.
A study of the development of the musical theatre; the style and form of its music, dance and drama and its impact on the modern theatre.

432 Research Techniques in Music. 3 hours.
The examination, evaluation and employment of research materials and methods in music.

302h Honors Course in Music. 3 hours.
Prerequisite: Consent of instructor or 3.3 cumulative grade average in all subjects.
Can be used for special study of any area in music. (Alternate Fall Semesters)

PERFORMING ORGANIZATIONS

Offered Fall and Spring Semesters. Offered selectively in Summer Semester.

140, 240, 340, 440 Choral Union. 1 hour.
141, 241, 341, 441 University Choir. 1 hour.
143, 243, 343, 443 University Band. 1 hour.
144, 244, 344, 444 University Orchestra. 1 hour.
145, 245, 345, 445 Chamber Singers. 1 hour.
146, 246, 346, 446 Brass Choir. 1 hour.
170, 270, 370, 470 Percussion Ensemble. 1 hour.
171, 271, 371, 471 Jazz Ensemble. 1 hour.
174, 274, 374, 474 Opera Theatre. 1 hour.

PERFORMANCE CLASSES

149, 249, 349, 449 Chamber Music. ½ hour.
This course presupposes that the student has attained considerable ability as a performer. Preparation and performance of all types of chamber music, such as sonatas, string quartets, etc. Literature for woodwind and brass ensembles, two pianos and small vocal ensembles. Credits will be given for as many semesters as taken. (Fall and Spring)

173, 273, 373, 473 Piano Ensemble. ½ hour.
(Fall and Spring)

APPLIED MUSIC SKILLS CLASSES

152 Diction for Voice Majors. 1 hour.
(Fall)

162 Group Voice. 1 hour.
An exploratory course in the theory and practice of the development of the singing voice. Natural breathing, correct tone production. (Fall and Spring)

160, 161 Group Piano. 1 hour.
A course for beginners. Scales and keyboard skills. (Fall, Spring)

260, 261 Group Piano. 1 hour.
Keyboard skills to include cadential progressions in all keys, harmonization of diatonic melodies in simple keys, playing by "ear," sight reading, memorization of the Star Spangled Banner and America, scales and development of techniques adequate to a moderately easy Clementi Sonatina. (Fall, Spring)

163 Group Woodwinds. 1 hour.
(Spring)

164 Group Brass. 1 hour.
(Fall)

165 Group Percussion. 1 hour.
(Fall)

166 Group Strings. 1 hour.
Courses 163, 164, 165, 166 are for beginners and are designed to give the student a working knowledge of the various instruments. (Fall and Spring)

218 Conducting I. 2 hours.
Patterns for each meter, uses of the left hand, cueing, posture, attacks, releases and synamics musical terms. (Fall)

318 Conducting II. 1 hour.
Continuation of Conducting I. Score reading. Experience in conducting instrumental and vocal groups. (Spring)

APPLIED MUSIC INSTRUCTION

Private or small group instruction in applied music (performance) is available to all interested students upon payment of the appropriate music fees.

Music 150, Applied Music **Secondary,** is intended for beginners and requires no audition. Subsequent courses in the Secondary track are available upon satisfactory completion of the immediately preceding course in that sequence.

The Applied Music **Principal** track is intended primarily for Music Education and B.A. students (all of whom must have pre-college training in an instrument or voice) and is available by audition only. Music 053 and 054 are remedial courses for those lacking sufficient preparation.

The Applied Music **Major** track is intended primarily for students seeking the B.M. with a Major in Performance and is available only to those who demonstrate advanced skills and high potential in an audition. Placement in subsequent courses after the initial semester in both the Principal and Major tracks is made on the basis of faculty committee recommendations.

Students registering for one credit hour (Secondary track) receive one half-hour private lesson per week or the equivalent. Those registering for two to four credit hours (Principal and Major tracks) receive two half-hour private lessons per week or the equivalent.

Students are required to practice a minimum of three hours per week for each credit hour received.

Instruments offered are piano, organ, harp, voice, violin, viola, cello, double bass, classical guitar, flute, oboe, clarinet, bassoon, saxophone, (French) horn, baritone horn, trumpet, trombone, tuba and percussion. In the class schedule, courses are listed by course number, track and instrument (e.g., Music 150 Applied Music Secondary: Piano).

150, 151, 250, 251, 350, 351, 450, 451 **Applied Music Secondary.** 1 hour.
053, 054, 153, 154, 253, 254, 353, 354, 453, 454 **Applied Music Principal.** 2-3 hours.
156, 157, 256, 257, 356, 357, 456, 457 **Applied Music Major.** 3-4 hours.
258, 358, 458 **Jazz Techniques.** 1 hour.
A studio study of jazz styles and improvisation on the instrument of one's choice. May be repeated for credit.

459 Senior Recital. 2 hours.
(For Performance Majors only)

GRADUATE COURSES

500 Seminar in Theory. 3 hours.
(Alternate Spring Semesters)

501 Analytical Techniques. 3 hours.
(Alternate Fall Semesters)

510 The Teaching of Applied Music. 3 hours.
(Spring)

511 Investigations in Music Education. 3 hours.
(Fall and Summer)

513 Directed Individual Study (Music Education). 3 hours.
(Fall, Spring and Summer)

514 General Music in the Secondary Schools. 3 hours.
(Alternate Fall Semesters)

515 Administration and Supervision of Public School Music. 3 hours.
(Spring)

530 Music Literature. 3 hours.
A variable topic course that may be taken more than once for credit. Typical topics are as follows:
The Symphony
Opera
Baroque Music
Nineteenth Century Music
Chamber Music
Keyboard Literature

538 Directed Individual Study (Theory or Literature). 3 hours.
(Fall, Spring and Summer)

556, 557, 558 Applied Music Major. 4 hours.
(M.M. in Performance only)

559 Graduate Recital. 2 hours.
(M.M. in Performance only)

599 Thesis Research. 6 hours.

Undergraduate course at the 400 level may be taken for graduate credit, if there is a graduate designation for the course.

DEPARTMENT OF PHILOSOPHY AND RELIGION

CHERRY HALL, ROOM 300

Professor Ronald H. Nash, Head

Professors: W. Lane, R. Mounce, D. Tuck, R. Veenker
Associate Professors: M. Howe, R. Johnston, J. Long, L. Mayhew, B. Roberts, J. Spiceland, A. Vos
Assistant Professor: E. Schoen
Instructors: S. Pointer, J. Trafton

Philosophy as an intellectual discipline gives serious, critical attention to the basic questions of life concerning man's relation to himself, to others, the universe and God. By acquainting the student with the answers proposed in philosophic literature, the courses in philosophy aim to help him/her understand the meaning of life, to think correctly and clearly, to make explicit those broad principles which involve the wider areas of human concern and to evaluate such principles intelligently.

The departmental offerings in the area of religious studies acquaint the student with the history, literature and beliefs of Christianity and the other major religions of the world.

Philosophy and religion courses which are listed in the general education guidelines may be used to fulfill the general education requirements in humanities.

Students who follow the Certifiable Program for Teacher Education can take a minor or second major in philosophy or religion only if they have a 30 hour major in some other area that is certifiable under state regulations for teacher certification.

Students should note the following:

1. Courses in Biblical Language may not be counted toward minimum major and minor requirements. These courses may be taken as foreign language courses or as religion electives above the minimum requirements.
2. All majors and minors are expected to work closely with their departmental advisors in planning their respective course of study.

MAJOR IN PHILOSOPHY

The major in philosophy (reference number 745) requires a minimum of 24 semester hours and leads to a Bachelor of Arts degree. One half must be in courses numbered 300 or above. All majors must elect at least two courses from each of the following groups:
Group A: Philosophy 130, 230, 300, 400, 401, 405, 420
Group B: Philosophy 110 or 115, 210, 310, 330, 425
Group C: Philosophy 320, 315, 401, 420, 440

MAJOR IN PHILOSOPHY AND RELIGION

The major in philosophy and religion (reference number 748) requires a minimum of 33 semester hours and leads to a Bachelor of Arts degree. One half must be in courses numbered 300 or above. Philosophy (Religion) 315 is required of all students in this major. The student must take 15 hours in philosophy, electing 9 of these hours from Philosophy 130, 230, 300, 400, 405 and 420. The student must also take 15 hours in religion, electing 9 hours from Religion 102, 320, 230, 305, 321, 400 and 440.

MAJOR IN RELIGIOUS STUDIES

The major in religious studies (reference number 769) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree. One half must be in courses numbered 300 or above. All majors must elect at least two courses from among Religion 100, 101, 102 and 325. With the approval of the department head, majors and minors in religion may take either Religion 300 or 301 in place of 100. Majors and minors should keep in close touch with the department head to be certain their program includes a broad variety of courses. Students are advised to elect at least one course from each of the following groups:

Group A: Religion 300, 301, 310, 312, 401, 405, 415, 420, 445
Group B: Religion 320, 321, 430, 431, 440, 455, 460, 465
Group C: Religion 230, 305, 315, 400

MINOR IN PHILOSOPHY

The minor in philosophy (reference number 429) requires a minimum of 18 semester hours. One half must be in courses numbered 300 or above. The student must select at least two courses from Group A, B and C (See philosophy major).

MINOR IN RELIGIOUS STUDIES

The minor in religious studies (reference number 447) requires a minimum of 21 semester hours, at least 12 of which must be in courses numbered 300 or above. At least two courses must be selected from Religion 100, 101 and 102. Minors are advised to select at least one course from Group A, B and C (See religion major).

GRADUATE DEGREE PROGRAMS

Interested and qualified students may pursue a Master's degree in Humanities which the Department of Philosophy and Religion offers in cooperation with several other departments. A number of assistantships are available to outstanding graduate students. For further information contact the Dean of the Graduate College.

Students pursuing Master's degrees in several related fields such as English and history are permitted to take up to six graduate hours in either philosophy or religion.

COURSES OF INSTRUCTION

COURSES IN PHILOSOPHY

110 Logic I. 3 hours.
A study of orderly and consistent thinking through the use of symbolism in analysis and deduction. (Every Semester)

115 Elementary Logic. 3 hours.
A study of the conditions of effective thinking and clear communication. An introduction to the description and evaluation of arguments. Not intended for those students planning to take Logic II. Students may not count both 110 and 115 towards a major or minor. (Every Semester)

120 Introduction to Philosophy. 3 hours.
An introduction to philosophy through a study of the essential problems and types of philosophy, with the aim of exposing the living issues around which reflective thinking is centered. (Every Semester)

130 Introduction to Ancient Philosophy. 3 hours.
An introduction to philosophy through a study of its history from its beginnings in ancient Greece to 400 A.D. Students who plan to major or minor in philosophy should take Philosophy 130 instead of 120. (Every Semester)

210 Logic II. 3 hours.
Prerequisite: Philosophy 110 or permission.
A continuation of Logic I supplementing the techniques of Logic I and providing proofs for elementary theorems assumed in Logic I. (At Least Once a Year)

230 Philosophy and Religion of the Middle Ages. 3 hours.
Prerequisite: One philosophy course other than Logic.
A study of the religious and philosophical thought patterns of Western civilization during the Middle Ages. Emphasis on St. Augustine and St. Thomas Aquinas.

300 Modern Philosophy. 3 hours.
Prerequisite: Philosophy 120 or 130 or permission.
The history of philosophy from Descartes to Kant. (Every Other Year)

305 Aesthetics. 3 hours.
A survey of the outstanding philosophies of art and a study of the principles of art criticism. (See Art 305)

310 Logic III. 3 hours.
Prerequisite: Philosophy 110 and/or 210 or permission.
A study of the nature and construction of deductive systems: (1) review of propositional functions and quantifiers; (2) rigorous construction of a deductive system; (3) completeness and consistency proofs and (4) alternative systems. (Every Other Year)

315 Philosophy of Religion. 3 hours.
Prerequisite: One course in philosophy or religion.
A systematic study of such problems as the nature and existence of God, the relation of faith and reason, the nature and destiny of man, immortality, evil and the problem of religious language. (Spring)

320 Ethics. 3 hours.
An introduction to the various historical approaches to the problems of normative ethics; a brief survey of contemporary ethical theory. (Every Semester)

330 Philosophy of Science. 3 hours.
Critical examination of the concepts, presuppositions and methods of the natural and social sciences; such fundamental concepts as space, time, matter, mind and causality are examined. (Every Other Year)

400 Contemporary Philosophy. 3 hours.
Prerequisite: Philosophy 120 or 130 or permission.
A critical and comparative survey of twentieth-century systems; idealism, pragmatism, positivism, neo-Thomism, existentialism, naturalism and dialectical materialism. (Every Other Year)

401 Readings in Philosophy. 3 hours.
Prerequisite: At least one philosophy course.
An intensive study of selected philosophic classics or readings in a selected area of philosophy. May be repeated for different topics. (At Least Once a Year)

405 Existentialism. 3 hours.
Prerequisite: At least one course in philosophy or permission.
Readings from both the philosophical and literary sources of existentialism. The works of Kierkegaard, Nietzsche, Sartre, Jaspers, Heidegger, Kafka, Camus, Marcel and Tillich are included. (Once a Year)

420 Philosophy of History. 3 hours.
Prerequisite: One course in philosophy or permission.
A survey of classic and modern theories about the nature, meaning and goal of history; criteria for the evaluation of historical data; representative philosophies of history; Augustine, Hegel, Marx, Spengler, Toynbee, Sorokin. (Every Other Year)

425 20th Century British Philosophy. 3 hours.
Prerequisite: One course in philosophy or permission.
An examination of the types of philosophical analysis which emerged between the two world wars and which have exerted a great influence on recent British philosophical thought. Included will be the contributions of Ryle, Wisdom, Austin, Strawson, B. Russell, Moore, Wittgenstein, Frege and Quine.

432 Early Political Philosophy. 3 hours.
A survey of political philosophy from Plato through Thomas Aquinas. See Government 432.

433 Modern Political Philosophy. 3 hours.
Prerequisite: One course in philosophy or permission.
Political Philosophy from Machiavelli to the present. See Government 433.

440 Metaphysics and Epistemology. 3 hours.
Prerequisites: One couse in philosophy or permission.
An intensive study of contemporary and classical views concerning such topics as: the mind-body problem, determinism, causation, God; recent and contemporary theories concerning the origin, nature and validity of knowledge. (Every Other Year)

499 Research in Philosophy. 3 hours.
Prerequisite: Open only to Philosophy majors with at least a 3.0 GPA in their senior year.
Directed study and research in one area of philosophy. The research will culminate in an acceptable thesis. (On Demand)

COURSES IN RELIGION

100 The New Testament: Its Background and Literature. 3 hours.
An introduction to the content of the New Testament as a part of the literary heritage of the Western world and as the normative documents of Christianity. (Every Semester)

101 The Old Testament: Its Background and Literature. 3 hours.
An introduction to the historical, literary and cultural approaches to the Hebrew Bible (Old Testament) with view toward understanding and interpretation. (Every Semester)

102 Introduction to Religion. 3 hours.
Survey of basic religious concepts, ideas and values to which all religions direct their attention. (Every Semester)

230 Philosophy and Religion of the Middle Ages. 3 hours.
A study of the religious and philosophical thought patterns of Western civilization during the Middle Ages. Emphasis on St. Augustine and St. Thomas Aquinas. See Philosophy 230. (Once a Year)

300 The Life of Jesus. 3 hours.
An investigation of the nature, content, and major interpretations of the sources for the life and teachings of Jesus. (Every Year)

301 Life and Teachings of Paul. 3 hours.
A study of the life and thought of Paul within its historical and cultural setting; concentration upon the principal themes in Pauline thought which have been most influential within the Christian tradition. (Every Year)

305 The Christian Faith. 3 hours.
A descriptive examination of the content and history of Christianity in an attempt to understand its character and its influence within Judaeo-Christian societies. (Every Year)

310 The Hebrew Prophets. 3 hours.
Prerequisite: Religion 101 or permission.
A study of the theological and ethical thought of the Hebrew prophets and their formative role in the historical development of Israel. (Every Other Year)

312 Ancient Near Eastern Texts. 3 hours.
Prerequisite: Religion 101 or permission.
A survey of Ancient Near Eastern literature relating to the Old Testament world. Topics include cosmology, epics, history, astrology, the occult, administrative and economic texts. (Every Other Year)

315 Philosophy of Religion. 3 hours.
See Philosophy 315.

320 Religions of the Near East. 3 hours.
A comparative study of the religions of Zoroastrianism, Judaism, Christianity and Islam. (Every Year)

321 Religions of the Far East. 3 hours.
A comparative study of the religions of India, China, Japan and Tibet. Emphasis is given to Hinduism, Buddhism and Primitive Religions. (Once a Year)

325 Religion in Contemporary America. 3 hours.
A study of the ways religion is understood and expressed by varying segments of American society.

382 Biblical Languages I. Introductory Hebrew. 3 hours.
A study of the vocabulary, grammar and syntax of Biblical Hebrew. May be taken either as a foreign language course or as a free elective. May not be taken to fulfill minimum course requirements for religion major or minor. (Fall)

383 Biblical Languages II. Intermediate Hebrew. 3 hours.
Prerequisite: Religion 282.
Further development of an understanding of the fundamentals of the Hebrew language with special attention to the reading of selected portions of the Old Testament. (Spring)

384 Biblical Languages III. Introductory Greek. 3 hours.
A study of the vocabulary, grammar and syntax of Koine Greek. May be taken either as a Foreign Language course or as a free elective. May not be taken to fulfill minimum requirements for Religion major or minor. (Fall)

385 Biblical Languages IV. Intermediate Greek. 3 hours.
Prerequisite: Religion 284.
Further development of an understanding of Koine Greek with readings in the New Testament and Hellenistic literature. (Spring)

400 Contemporary Religious Thought. 3 hours.
Prerequisite: One Religion course or permission.
A study of the writings of the creative theological minds of the Twentieth Century. (Once a Year)

401 Religion Seminar. 3 hours.
Prerequisite: One Religion course or permission.
A seminar with rotating topics designed primarily for advanced students in religion. Course may be repeated for different topics. (Once a Year)

405 Current Issues in New Testament Studies. 3 hours.
Prerequisite: Either 300, 301 or 305.
A study of one or more of the major literary-historical problems of New Testament studies and a consideration of the thought of one or more of the more influential contemporary New Testament scholars. (Every Other Year)

415 Old Testament Themes. 3 hours.
Prerequisite: Religion 101 or permission.
Examination of such major Old Testament themes as: creation, covenant, man, sin, righteousness, truth and faithfulness. (Every Other Year)

420 The Age of the Apostles. 3 hours.
Prerequisite: Religion 100 or 305 or permission.
An investigation of the historical and intellectual developments of the first century of Christianity (A.D. 30-150) and special study of selected relevant New Testament and early Christian documents. (Every Other Year)

430 Christianity to 1517. 3 hours.
Prerequisites: Religion 100 or 102 and one history course.
An investigation of the development of Christian thought and institutions from the first century of the Church until the Reformation. (Every other Fall)

431 Christianity from 1517 to the Present. 3 hours.
Prerequisites: Religion 100 or 102 or 305 and one history course.
An investigation of the development of Christian thought and institutions from the beginning of the Reformation to the present. (Every other Spring)

440 Judaism. 3 hours.
Prerequisite: Junior standing.
An attempt to integrate the history, literature, religion, art and music of eastern European and American Jewry in order to provide the student with a cultural experience in Judaism. A field trip to a Nashville synagogue is required. (Every Other Year)

445 The Religious Traditions of Israel. 3 hours.
Prerequisite: Six hours of religion (preferably 101 and 310) or permission.
A study of the development of ancient sacred traditions of the Hebrew people and their formative influence upon the structure of the five books of Moses. (Every Other Year)

455 The Hindu Religious Tradition. 3 hours.
Prerequisite: Permission of instructor.
An academic study of the beliefs, practices and symbols of the major religion of the Indian peoples. Contemporary interpreters such as Radhakrishnan, Tagore and Gandhi are analyzed for religious meanings. (Every Other Year)

460 The Religion of Primitive Peoples. 3 hours.
Prerequisite: Permission of instructor.
An analysis of the religious experiences and expressions of primitive peoples. Major motifs such as magic, myth, ritual and symbolism are studied in historical, cultural context in order to understand their religious meanings. (Every Other Year)

465 The Buddhist Religious Tradition. 3 hours.
Prerequisite: Permission of instructor.
A study of the religion begun by Gautama the Buddha and its development into the three major schools of Theravada, Mahayana and Tantrayana. The cultural settings of India, China, Tibet and Japan supply the empirical data for a sympathetic understanding of the beliefs, practices and symbols of Buddhism. (Every Other Year)

499 Research in Religion. 3 hours.
Prerequisite: Open only to religion majors with a 3.0 GPA in their senior year.
Directed study and research in one area of religious studies. (On Demand)

GRADUATE COURSES

500 Humanities Seminar. 3 hours.

501 Readings in Philosophy. 3 hours.

502 Seminar in Ancient and Medieval Philosophy. 3 hours.

503 Seminar in Modern Philosophy. 3 hours.

504 Seminar in Contemporary Philosophy. 3 hours.

598 Humanities Essay. 3 hours.

599 Humanities Thesis. 6 hours.

Rel. 501 Seminar in Religious Studies. 3 hours.

Rel. 510 Seminar in Religious Literature. 3 hours.

Rel. 520 Seminar in Religious History. 3 hours.

Rel. 530 Seminar in Religious Thought. 3 hours.

PRE-THEOLOGY

CHERRY HALL, ROOM 319C
Advisor: Ronald Veenker

Theological seminaries accredited by the American Association of Theological Schools require for entrance the B.A. or B.S. degree from an accredited four-year college or university. Pre-theological students should seek to attain a broad background in liberal arts subjects in their university studies.

In selecting majors, serious consideration should be given to the fields of English, history, philosophy, philosophy and religion, and religion. Minors and free electives should be chosen from the areas of English, history, mass communications, philosophy, philosophy and religion, psychology, religion, sociology and speech.

Entry requirements for specific theological seminaries and for different programs within these institutions vary. Students should consult seminary catalogs and the Pre-theology Advisor. Special attention should be paid to the language requirement made by some seminaries.

The courses recommended below to be taken in fulfilling Western Kentucky University's General Education Guidelines are not mandatory but include every basic recommendation of the American Association of Theological Schools.

English 101, 102; Foreign Languages—Biblical 282, 283, 284, 285; History 119, 120, 418; Natural Science (chemistry, physics, biology or geology); Philosophy 130; Psychology 100; Religion 100, 101, plus elective; Speech 145; Social Sciences (six hours from sociology, economics, political science, anthropology, government), Math (three hour elective).

HUMANITIES SEMESTER

FAC 233
Richard Weigel, Director

The Humanities Semester offers Western students an opportunity to fulfill the humanities requirements under Category "B" of the General Education Guidelines in an unusually stimulating and innovative way. Instead of taking a random selection of courses from Category "B," a Humanities Semester student registers for a set of four team-taught courses centering around a major cultural epoch. The teaching teams have all been involved in the planning of the courses and the result is a series of integrated course outlines, readings and themes. Each epoch is approached from the standpoint of its history, philosophy and religion, literature and fine arts. A former fifth course, the Seminar, has been eliminated and the program reduced from 15 to 12 semester hours in order that students may, if they desire, take one course in their major or minor during the time they are enrolled in the Humanities Semester.

Three cultural epochs are available to students now. Each epoch by itself fulfills the entire humanities requirements under General Education. They are Ancient Greece and Rome, Medieval and Renaissance Europe and the Modern Western World. The individual courses are listed below.

Any student in any curriculum may register for the Humanities Semester. The program has particularly appealed to freshmen who are just beginning to fulfill their humanities requirements. Since enrollments are limited, students interested in the Humanities Semester should contact the Office of the Dean of Potter College, FAC 200.

COURSES OF INSTRUCTION

ANCIENT GREECE AND ROME

190 History of Ancient Greece and Rome. 3 hours.

191 Fine Arts of Ancient Greece and Rome. 3 hours.

192 Literature, Drama and Rhetoric of Ancient Greece and Rome. 3 hours.

193 Philosophy and Religion of Ancient Greece and Rome. 3 hours.

194 Seminar in Ancient Greece and Rome. 3 hours.

MODERN WESTERN WORLD

180 History of the Modern Western World. 3 hours.

181 Fine Arts of the Modern Western World. 3 hours.

182 Literature of the Modern Western World. 3 hours.

183 Philosophy and Religion of the Modern Western World. 3 hours.

184 Seminar in the Modern Western World. 3 hours.

MEDIEVAL AND RENAISSANCE EUROPE

170 History of Medieval and Renaissance Europe. 3 hours.

171 Fine Arts of Medieval and Renaissance Europe. 3 hours.

172 Literature of Medieval and Renaissance Europe. 3 hours.

173 Philosophy and Religion of Medieval and Renaissance Europe. 3 hours.

174 Seminar in Medieval and Renaissance Europe. 3 hours.

College of Business Administration

GRISE HALL, ROOM 445

Dean: Robert E. Nelson

In June 1963 Western Kentucky University assumed the educational program of the Bowling Green College of Commerce and in 1964 the Bowling Green College of Commerce became a division of the University. The name was changed in 1972 to the Bowling Green College of Business and Public Affairs; and following departmental realignment in 1979, the name was changed to the Bowling Green College of Business Administration.

The mission of the College of Business Administration is to provide programs leading to associate, baccalaureate, and masters degrees and to offer courses and seminars for adult, continuing, and executive education. Associate programs emphasize practical training in specialized areas. Baccalaureate programs emphasize a firm base of liberal arts education plus the professional theory and applications necessary for creativity and rational decision making in the business world. Masters programs emphasize the comprehensive depth of theory and thought necessary to the exploration and solving of complex business and economic problems. Adult, continuing, and executive courses and seminars emphasize both basic skills and new developments which allow employed participants to retrain themselves and keep abreast of new ideas and technological advancement. Baccalaureate and masters programs for teacher education emphasize modern teaching methods as well as preparation for an alternative career in business or industry. These programs and courses are offered through the departments within the college: Accounting, Business-Distributive Education and Office Administration, Economics, Finance and Quantitative Business Analysis, and Management and Marketing.

A number of scholarships are awarded each academic year to students in the College of Business Administration. The College also participates with the personnel department of the State of Kentucky in arranging student participation in the Student-Employee Scholarship Program (SESP). Interested students should contact the Dean's Office for application forms and information.

Several programs offered in the College of Business Administration provide credit for internships (supervised work experience), and graduate and senior level undergraduate students have an opportunity to work in a consulting capacity to small businesses in the South Central Kentucky area. Participating students gain experience in business and have a chance to test and apply some of the theoretical information gained in their coursework.

Admission Requirements

First semester freshmen who meet the general admission requirements of the University can be admitted directly to the associate degree programs within the College

of Business Administration. Consultation with the department head administering the specific program is required.

All students pursuing baccalaureate degrees in the College must apply for and gain admission to the College of Business Administration before enrolling in upper division professional courses offered in the College. Students pursuing degrees in other divisions of the University may, with instructor approval, enroll in selected upper division courses.

Ordinarily, students should apply for admission to the College during the second semester of the sophomore year or after completion of 45 semester hours. To be admitted to the College the student (1) must have completed Mathematics 116 and 119, Economics 202, 203, and 206, and Accounting 200 and 201; and (2) must have a minimum overall grade point average of 2.2. Students who do not meet these admission criteria may be granted provisional admission in some cases.

Students attending four-year schools who wish to transfer to WKU after two years should avoid losing credits toward graduation by following a program of general education and prerequisite courses similar to the catalog requirements for entering freshmen at Western.

Normally, courses should not be taken at other schools which are offered only at the upper division level at WKU. While some departments within the College of Business Administration allow 300-level transfer courses to fulfill requirements in the major or minor, no department in the College permits the use of 400-level transfer courses without prior approval of the department head. Students should contact the individual department heads to determine whether upper division credit earned at other institutions will apply toward WKU programs.

Students planning to enroll or presently enrolled in junior or community colleges who envision transferring to WKU to complete a baccalaureate degree in the College of Business Administration should, to avoid losing credits toward graduation, follow a program of general education and prerequisite courses similar to the catalog requirements for freshmen and sophomores on the Western campus. They should avoid taking courses such as business law, principles of management, principles of marketing, principles of finance, personnel management, and advanced computer technology since these courses are not applicable to programs in the College of Business Administration except when validated by written examination. The validation examination will be prepared, administered, and graded by the appropriate department head or the head's designee.

Ordinarily, introductory courses in accounting (6 hrs.), economics (6 hrs.), and statistics (3 hrs.) taken at accredited schools are readily transferable to College programs. Courses in linear mathematics (3 hrs.) and calculus (4 hrs.) are generally transferable to College programs. A maximum of six semester hours of unvalidated professional courses will be allowed as general elective transfer credit in a student's total program of 128 or more hours.

No transfer course satisfying prerequisite, core, major, or minor requirements will be accepted toward a College of Business Administration program unless a grade of "C" or higher has been earned.

Curricula

The curricula in the College of Business Administration are rigorously structured and require students to satisfy prerequisites and major requirements in proper sequence. Basically, the freshman and sophomore years are used for courses in general education and prerequisites. The junior year should be used to complete all remaining general education requirements and the 300-level professional core courses. The senior year is used primarily to satisfy advanced course requirements in the major. Students pursuing the Bachelor of Science Degree in Accounting, Comprehensive Business, Finance, Management, Quantitative Business Analysis, Marketing, Business Education, Distributive Education, Office Administration, and Managerial Economics must follow this pattern.

Students pursuing the Bachelor of Arts Degree in Economics (i.e., the students not required to satisfy the professional core) have considerable flexibility and should consult the department head for prerequisites and sequencing requirements. Students following minor, associate, and certificate programs should also contact department heads for prerequisites and sequencing requirements.

Curricula and courses of instruction are detailed in the departmental sections on the following pages. Students should read carefully the information provided by the departments before choosing a field of study. Any questions should be directed to the appropriate department head. Although students may choose one program and change to another program at a later date, such program changes often extend the number of hours required for graduation.

The professional core provides a broad business background at the baccalaureate level and prepares students for imaginative and responsible leadership roles in business and society — domestic and world-wide. The core content responds to social, economic, and technological developments and reflects the application of evolving knowledge in economics and the behavioral and quantitative sciences. Completion of the majority of the core courses by the end of the junior year is essential in providing the necessary base for advanced study during the senior year.

The professional core consists of 39 semester hours and is composed of the following courses:

Accounting 200 and 201
(Accounting majors take Accounting 200 and 300).
Economics 202, 203, 206, and 414
Management 300, 310, and 418
Quantitative Business Analysis 313
Marketing 320
Finance 330
Quantitative Business Analysis 340
(Information Systems majors take Information Systems 142).

Most Bachelor of Science programs in the College of Business Administration are structured as shown below:

1. General Education courses	**47-48** hours
2. Professional Core (Includes 6 general education hours)	**39** hours
3. Advanced major, professional education and elective courses	**42-41** hours
TOTAL	**128** hours

DEPARTMENT OF ACCOUNTING

GRISE HALL, ROOM 400

Professor Charles Hays, Head

Professors: J. Hall, G. Porter
Associate Professors: J. Philhours, E. Schweizer, R. Veitschegger
Assistant Professors: C. Aldridge, F. Clark, K. Gabehart, K. Sanborn

The major in accounting prepares individuals to enter public, industrial or governmental accounting positions. In addition to the required accounting courses, courses in economics, finance, management, marketing and quantitative business analysis are required. The accounting major is designed to fulfill the educational requirements for taking the certified public accountant examination in virtually all states. A minor in accounting is available to students who select other fields as their primary areas of study.

Students majoring in accounting are required to complete Mathematics 116 and Speech 161 within the natural science/mathematics and the organization and communications of ideas areas of the general education requirements. Mathematics 119 is also required.

Students who minor in accounting are required to complete Mathematics 116 as part of the natural sciences and mathematics area of the general education requirements.

COURSES OF INSTRUCTION

ACCOUNTING (ACCT)

200 Elementary Accounting I. 3 hours.
Prerequisite: None.
An introduction to the concepts and procedures used in accounting for business activity. Income determination and accounting for assets, liabilities and ownership equity of proprietorships and partnerships are emphasized, as is the preparation of financial statements for business enterprises. (Fall, Spring, Summer)

201 Elementary Accounting II. 3 hours.
Prerequisite: Accounting 200. (Not offered for credit to students with an area of concentration or minor in accounting).
An introduction to corporate accounting and to cost accounting for manufacturers, including the uses and limitations of accounting data in management decision making. Budgeting and financial statement analysis are also covered. (Fall, Spring, Summer)

202 Elementary Accounting II Lab. 1 hour.
Prerequisite: Accounting 200. (For those students with areas of concentration in business education or office administration and those students in the two-year secretarial science program).
Practice sets are used to simulate the accounting cycle as applied to business enterprises. The course assists in preparing the student to teach accounting at the high school level and in performing bookkeeping functions for business entities. (Fall, Spring)

300 Intermediate Financial Accounting. I. 3 hours.
Prerequisite: Accounting 200.
Emphasizes the theory of accounting and encourages the student to develop an analytical approach to accounting problems. Provides an introduction to corporate accounting and involves a review of the accounting cycle and the financial reporting process. Accounting for current assets is also covered. (Fall, Spring, Summer)

301 Intermediate Financial Accounting II. 3 hours.
Prerequisite: Accounting 300.
Present value concepts and accounting for plant assets and liabilities are emphasized. Also provides in-depth coverage of various corporate accounting problems. (Fall, Spring, Summer)

302 Intermediate Financial Accounting III. 3 hours.
Prerequisites: Accounting 300 and 301.
A continuation of Intermediate Financial Accounting I and II with emphasis placed on certain specialized accounting topics. The statement of changes in financial position and accounting for pension costs, accounting for leases, accounting changes and price level accounting and reporting are some of the topics covered. (Fall, Spring, Summer)

310 Cost Accounting I. 3 hours.
Prerequisite: Accounting 200.
Provides the student with an introduction to the techniques and procedures used in the field of cost accounting, particularly in the areas of budgeting, job order and standard cost accounting systems. (Fall, Spring, Summer)

311 Cost Accounting II. 3 hours.
Prerequisite: Accounting 310.
Provides more advanced theories and developments in the field of cost accounting, especially in the area of process costing, and broadens the student's knowledge in this specialized field. (On Demand)

400 Partnership and Fund Accounting. 3 hours.
Prerequisite: Accounting 300.
Emphasizes the various problems involved in accounting for partnerships and familiarizes the student with the specialized techniques and concepts of accounting for various governmental and institutional organizations. (Fall, Spring)

401 Consolidated Statements and Related Topics. 3 hours.
Prerequisite: Accounting 302.
Emphasis is placed on the various problems involved in the preparation of consolicated financial statements. Consideration is also given to other specialized areas of accounting. (Fall, Spring)

402 Contemporary Accounting Issues. 3 hours.
Prerequisite: Accounting 302 and senior standing.
A study of contemporary problems in financial accounting. Emphasis is placed on the study and evaluation of pronouncements of various organizations concerned with the development of accounting principles and practices. Helps broaden the student's

MAJOR IN ACCOUNTING

The major in accounting (reference number 602) requires 69 semester hours and leads to a Bachelor of Science degree. An accounting student's program thus consists of approximately 47-48 semester hours of general education courses, 69 semester hours of accounting and other professional courses, 4 semester hours of Mathematics 119, and 7-8 semester hours of general electives, as outlined below. The letter in parentheses indicates the general education category in which the courses may be applied for credit.

Freshman Year (33 hrs.) ENG 101(A), 102(A) - 6 hrs; MATH 116(D) - 3 hrs; Natural Science Electives(D) - 6 hrs; Humanities Electives(B) - 6 hrs; Social Science Electives(C) - 6 hrs; General Education Elective(F) - 3 hrs; Physical Education Elective(E) - 2 hrs; LSIM 101 - 1 hr.
Sophomore Year (34 hrs.) SCOM 161(A) - 3 hrs; Humanities Elective(B) - 3 hrs; ENG 183(B) - 3 hrs; Natural Science Elective(D) - 3 hrs; HIST 119 or 120(C) - 3 hrs; ECON 202, 203, 206 - 9 hrs; ACCT 200, 300 - 6 hrs; MATH 119 - 4 hrs.
Junior Year (33 hrs.) ACCT 301, 302, 310, 400 - 12 hrs; MGT 300, 301, 310 - 9 hrs; QBA 313, 340 - 6 hrs; MKT 320 - 3 hrs; Elective - 3 hrs.
Senior Year (28 hrs.) ACCT 401, 402, 430, 431, 450 - 15 hrs; FIN 330 - 3 hrs; ECON 414 - 3 hrs; MGT 418 - 3 hrs; Electives - 4 hrs.

MINOR IN ACCOUNTING

The minor in accounting (reference number 302) requires a minimum of 21 semester hours, consisting of the following courses: ACCT 200, 300, 301, 302, 310, and 430; and ECON 206.

concept and understanding of accounting into a meaningful discipline. (Fall, Spring, Summer)

410 Accounting for Decision-making and Control. 3 hours.
Prerequisite: Accounting 200 and senior or graduate standing. (Not offered for credit to students with an area of concentration or minor in accounting).
An introduction to the use of accounting information as an aid to decision-making and control. Emphasis is placed on the internal use of accounting data. Intended primarily for students in the MBA program. (On Demand)

430 Federal Tax Accounting I. 3 hours.
Prerequisite: Accounting 200.
Provides a comprehensive explanation of the federal tax structure. Primary emphasis is placed on the federal income tax rules and regulations as they apply to individuals. Provides the student with an opportunity to apply tax principles to specific problems. (Fall, Spring, Summer)

431 Federal Tax Accounting II. 3 hours.
Prerequisite: Accounting 430.
Furthers the student's understanding and knowledge of the federal income tax structure as it applies to partnerships and corporations. Other specialized areas of federal taxation are also covered. Emphasis is placed on the use of tax services in researching tax problems. (Spring)

450 Auditing Theory and Application. 3 hours.
Prerequisite: Accounting 302 and senior standing.
Emphasizes the work of public accountants. Topics covered include auditing standards, professional ethics, legal liabilities, auditing objectives and procedures, preparation of audit working papers and reporting considerations when rendering an opinion on financial statements. (Fall, Spring)

460 CPA Problems. 3 hours.
Prerequisite: Senior standing.
The course is designed to assist the student in preparing for the uniform CPA examination. Passing this examination is one of the requirements for becoming a certified public accountant. (On Demand)

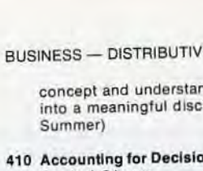
470 Senior Seminar in Accounting. 1-3 hours.
Prerequisite: Senior standing.
Investigations into current accounting developments. The course is designed to give seniors an opportunity for in-depth study of important accounting developments. (On Demand)

DEPARTMENT OF BUSINESS - DISTRIBUTIVE EDUCATION AND OFFICE ADMINISTRATION

GRISE HALL, ROOM 500

Professor Hollie W. Sharpe, Head

Professors: J. Harrington, P. Keck, C. Ray
Associate Professors: M. Albin, R. Taylor, K. Utley
Assistant Professors: R. Allen, D. Clippinger, M. Holman, G. Hovious



The department administers graduate major and minor programs in business education and office administration under the Master of Arts in Education; undergraduate majors in business education, distributive education, and office administration, which lead to the Bachelor of Science degree; Associate of Arts (two-year) degree programs in secretarial administration, legal secretarial administration and medical secretarial administration; and a Certificate (one year) program in secretarial science. Minors are offered in general business and secretarial science. Students in programs leading to teacher certification must also confer with the Department of Teacher Education.

MAJOR IN BUSINESS EDUCATION

The major in business education (reference number 620) requires 60 semester hours and leads to a Bachelor of Science degree. Option I (Comprehensive) prepares for certification in all secondary school business subjects except advanced data processing. The outline which follows designates the planned program to be followed by academic year. The letter in parentheses indicates the general education category in which the course may be applied for credit.

Freshman Year (32 hrs.) ENG 101(A), 102(A), - 6 hrs; Humanities Electives(B) - 6 hrs; Social Science Electives(C) - 3 hrs; MATH 116(D) - 3 hrs; MATH 119 - 4 hrs; HLSFT 100 or PHY ED 100(E) - 3 hrs; BDEOA 201, 212 - 6 hrs; LSIM 101(F) - 1 hr.** ***

Sophomore Year (36 hrs.) SCOM 145 or 161(A) - 3 hrs; ENG 183(B) - 3 hrs.; HIST 119 or 120(C) - 3 hrs; ECON 202(C), 203(C), 206 - 9 hrs; Humanities Elective(B) - 3 hrs; Natural Science Elective(D) - 3 hrs; ACCT 200, 201 - 6 hrs; BDEOA 301, 311 - 6 hrs.

Junior Year (33 hrs.) FIN 330 - 3 hrs; MGT 300, 310 - 6 hrs; MKT 320 - 3 hrs; QBA 340, 313 - 6 hrs; BDEOA 315 or 316 - 3 hrs; BDEOA 361(F) - 3 hrs; PSY 320 - 3 hrs; SEC ED 370, 380 - 6 hrs.

Senior Year (31 hrs.) Social Science Elective(C) - 3 hrs; Natural Science Elective(D) - 6 hrs; MGT 418 - 3 hrs; ECON 414 - 3 hrs; BDEOA 350 or 481 - 3 hrs; SEC ED 466 - 2 hrs; SEC ED 467 - 3 hrs; SEC ED 490S - 8 hrs.

Option II (Non-shorthand)
This option prepares for certification in all secondary school business subjects except advanced data processing, shorthand and related secretarial subjects. The outline which follows designates the planned program to be followed by academic year. The letter in parentheses indicates the general education category in which the course may be applied for credit.

Freshman Year (35 hrs.) ENG 101(A), 102(A) - 6 hrs; Humanities Electives(B) - 6 hrs; Social Science Elective(C) - 3 hrs; MATH 116(D) - 3 hrs; MATH 119 - 4 hrs; Elective(D) - 3 hrs; HLSFT 100 or PHY ED 100(E) - 3 hrs; BDEOA 161, 201 - 6 hrs; LSIM 101(F) - 1 hr.**

Sophomore Year (33 hrs.) SCOM 145 or 161(A) - 3 hrs; ENG 183(B) - 3 hrs; Humanities Elective(B) - 3 hrs; ECON 202(C), 203(C) - 6 hrs; HIST 119 or 120(C) - 3 hrs; Natural Science Electives(D) - 6 hrs; ACCT 200, 201 - 6 hrs; BDEOA 301 - 3 hrs.

Junior Year (30 hrs.) ECON 206 - 3 hrs; FIN 330 - 3 hrs; QBA 340 - 3 hrs; MGT 310 - 3 hrs; MKT 320 - 3 hrs; PSY 320 - 3 hrs; SEC ED 370, 380 - 6 hrs; BDEOA 350, 481 - 6 hrs.

Senior Year (31 hrs.) BDEOA 361(F) - 3 hrs; QBA 313 - 3 hrs; MGT 300, 418 - 6 hrs; ECON 414 - 3 hrs; SEC ED 466 - 2 hrs; SEC ED 490S - 8 hrs; BDEOA Elective - 3 hrs; Social Science Elective(C) - 3 hrs.

MAJOR IN DISTRIBUTIVE EDUCATION

The major in distributive education (reference number 632) requires 60 hours and leads to a Bachelor of Science degree. Requirements for secondary education certification must be met. All Distributive Education professional education courses are listed under the Center for Career and Vocational Teacher Education section of this catalog.

The outline which follows designates the planned program to be followed by academic year. The letter in parentheses indicates the general education category in which the course may be applied for credit.

Freshman Year (32 hrs.) ENG 101(A), 102(A) - 6 hrs; MATH 116(D) - 3 hrs; MATH 119 - 4 hrs; SCOM 161(A) - 3 hrs; Humanities Electives(B) - 6 hrs; Natural Science Elective(D) - BIOL - 3 hrs; RET 150 - 3 hrs; SBM 250 - 3 hrs; LSIM 101(F) - 1 hr.

Sophomore Year (36 hrs.) ENG 183(B) - 3 hrs; Natural Science Elective(D) - 3 hrs; ECON 202 203(C) - 6 hrs; ACCT 200, 201 - 6 hrs; Humanities Elective(B) - 3 hrs; RET 210, 253 - 6 hrs; HLSFT 100 or PHY ED 100(E) - 3 hrs; HIST 119 or 120(C) - 3 hrs; BDEOA 350 - 3 hrs.

Junior Year (36 hrs.) ECON 206 - 3 hrs; Social Science Elective(C) - 3 hrs; QBA 313 - 3 hrs; CVTE 365 - 3 hrs; BDEOA 361(F) - 3 hrs; PSY 320 - 3 hrs; MGT 300 - 3 hrs; MKT 320 - 3 hrs; FIN 330 - 3 hrs; SEC ED 380 - 3 hrs; MGT 310 - 3 hrs; MKT 321 - 3 hrs.

Senior Year (35 hrs.) QBA 340 - 3 hrs; MGT 418 - 3 hrs; ECON 414 - 3 hrs; CVTE 367, 416, 417, 428 - 12 hrs; CVTE 490 - 8 hrs; Social Science Elective(C) - 3 hrs; Natural Science Elective(D) - 3 hrs.

MAJOR IN OFFICE ADMINISTRATION

The major in office administration (reference number 740) requires 69 semester hours and leads to a Bachelor of Science degree. The outline which follows designates the planned program to be followed by academic year. The letter in parentheses indicates the general education category in which the courses may be applied for credit.

Freshman Year (33 hrs.) ENG 101(A), 102(A) - 6 hrs; MATH 116(D) - 3 hrs; Humanities Electives(B) - 6 hrs; Natural Science Elective(D) - 3 hrs; SCOM 145 or 161(A) - 3 hrs; MATH 119 - 4 hrs; BDEOA 101 or 201 - 3 hrs; HIST 119 or 120(C) - 3 hrs; PHY ED (E) - 1 hr; LSIM 101(F) - 1 hr.**

Sophomore Year (31 hrs.) ENG 183(B) - 3 hrs; Natural Science Electives(D) - 6 hrs; ECON 202, 203(C) - 6 hrs; ACCT 200, 201 - 6 hrs; Humanities Elective(B) - 3 hrs; BDEOA Electives (300-400 level) - 6 hrs; PHY ED(E) - 1 hr.

Junior Year (32 hrs.) ECON 206 - 3 hrs; MGT 300, 310 - 6 hrs; BDEOA 350 - 3 hrs; QBA 340 - 3 hrs; MKT 320 - 3 hrs; FIN 330 - 3 hrs; General Education Elective(F) - 2 hrs; Free Elective (300-400 level) - 3 hrs; Social Science Electives(C) - 6 hrs.

Senior Year (32 hrs.) BEOA 461, 462, 463, 481 - 12 hrs; ACCT 310 - 3 hrs; QBA 313 - 3 hrs; ECON 300, 414 - 6 hrs; MGT 418 - 3 hrs; Free Electives - 5 hrs.

MINOR IN GENERAL BUSINESS

The minor in general business (reference number 368) requires 24 semester hours. Required courses are: MGT 100, INFS 142; BDEOA 101 or 201, 161; MGT 310 or BDEOA 462 or 463; MGT 300; MKT 320; BDEOA 361.**

MINOR IN SECRETARIAL SCIENCE

The minor in secretarial science (reference number 453) requires 24 semester hours. Required courses are: MGT 100; QBA 340; BDEOA 201, 161, 301, 212, 311; 3 hours electives from BDEOA 315, 316, 461, or 462.** ***

ASSOCIATE DEGREE PROGRAM IN SECRETARIAL ADMINISTRATION

The two-year program in secretarial administration (reference number 290) requires 64 semester hours and leads to an Associate of Arts degree. Required courses are: MGT 100; BDEOA 101 or 201, 161, 211 or 212 or 213, 214, 301, 311, 312, 315, 316, 350; ENG 101, 102; ACCT 200, 201; ECON 202, 203; MGT 301; Science Elective - 3 hrs; 7 hours of electives.** ***

ASSOCIATE DEGREE PROGRAM IN MEDICAL SECRETARIAL ADMINISTRATION

The two-year program in medical secretarial administration (reference number 263) requires 64 semester hours and leads to an Associate of Arts degree. Required courses are: MGT 100; BDEOA 101 or 201, 161, 211 or 212 or 213, 301, 306, 311 or 214, 312, 316, 325, 350; ENG 101, 102; ACCT 200; ECON 150 or 202 or 203; BIOL 131; HL SFT 171, 290, 381; 10 hours of electives.** ***

ASSOCIATE DEGREE PROGRAM IN LEGAL SECRETARIAL ADMINISTRATION

The two-year program in legal secretarial administration (reference number 253) requires 64 semester hours and leads to an Associate of Arts degree. Required courses are: ENG 101, 102; MGT 100; BDEOA 201, 211 or 212 or 213, 214 or 311, 301, 305, 312, 315, 316, 320, 350; LSIM 101; ECON 150 or 202 or 203; ACCT 200; MGT 301, 302; Science Elective - 3 hrs; 10 hours of electives.** ***

CERTIFICATE PROGRAM IN SECRETARIAL SCIENCE

The one-year program in secretarial science (reference number 197) requires 33 semester hours and leads to a Certificate. Required courses are: BDEOA 101 or 201, 211 or 212 or 213, 301, 311 or 214, 312, 315, 316, 350; ACCT 200; ENG 101; 3 hours of electives.** ***

**If the student has had typewriting previously, BDEOA 101 cannot be counted for credit.

***If the student has had shorthand previously, BDEOA 211 cannot be counted for credit.

COURSES OF INSTRUCTION

BUSINESS - DISTRIBUTIVE EDUCATION AND OFFICE ADMINISTRATION (BDEOA)

101 Beginning Typewriting. 3 hours.
Meets five times weekly. Keyboard mastery, drill for speed and accuracy, letters and other business forms. (Fall, Spring)

161 Business Arithmetic. 3 hours.
Basic principles of mathematics as applied to business problems. (Fall, Spring)

201 Intermediate Typewriting. 3 hours.
Meets five times weekly. Designed to meet the needs of the students who have had previous training, but who need additional work before taking advanced typewriting. (Fall, Spring, Summer)

211 Beginning Shorthand. 3 hours.
Meets five times weekly. Complete coverage of the theory of Gregg shorthand, elementary speed building and transcription. (Fall, Spring)

212 Intermediate Shorthand. 3 hours.
Prerequisite: BE OA 101 and 211 or permission of instructor.
Meets five times weekly for students with some previous training to prepare for BE OA 311. (Fall, Spring)

213 Machine Shorthand I. 3 hours.
Prerequisite: BE OA 201.
Touch Shorthand theory, elementary speed building and transcription. (Fall)

214 Machine Shorthand II. 3 hours.
Prerequisite: BE OA 213.
Theory review, speed building on new-matter dictation and mailable letter transcription. (Spring)

301 Advanced Typewriting. 3 hours.
Prerequisite: BE OA 101 or 201.
Tabulation, manuscript preparation, legal typing, letter forms, speed and accuracy improvement. Emphasis on production. (Fall, Spring)

305 Legal Typewriting. 2 hours.
Prerequisite: BE OA 301.
Familiarization with and development of skill in typing legal problems. (Spring)

306 Medical Typewriting. 2 hours.
Prerequisite: BE OA 301.
Familiarization with and development of skill in typing medical correspondence. (Fall)

311 Shorthand Dictation. 3 hours.
Prerequisites: BE OA 201 and 212.
Complete theory review, speed building in taking dictation, development of basic transcription ability. (Fall, Spring).

312 Shorthand Transcription. 3 hours.
Prerequisites: BE OA 301 and 311.
Advanced speed-building, dictation and transcription. (Fall, Spring)

315 Secretarial Skills. 3 hours.
Prerequisite: BE OA 301 and 212.
Machine transcription, duplicating methods, electric typewriters, specialized typing projects. (Fall, Spring)

316 Office Procedures. 3 hours.
Prerequisites: BE OA 301 and 212 or 214.
Attitudes and traits of a secretary, stenographic and mailhandling duties, receptionist duties, report preparation, financial and legal responsibilities, office equipment. (Fall, Spring)

320 Legal Stenography. 3 hours.
Prerequisites: BE OA 301 and 311.
Acquisition of legal vocabulary, dictation and transcription of legal problems and correspondence. (Spring)

325 Medical Stenography. 3 hours.
Prerequisites: BE OA 301 and 311.
Acquisition of medical vocabulary, dictation and transcription of medical cases and correspondence. (Fall)

350 Business Communications. 3 hours.
A study of communication processes in business as related to productive writing. Emphasis on the principles of functional communication; correct, forceful language use and sound management policies and practices which lead to effective communication. (Fall, Spring)

351 Credits and Collection. 3 hours.
Prerequisite: ACCT 201.
An analysis of theory, practices and principles of credit management; the credit manager, the legal aspects, credit insurance and reports. (Fall, Spring)

361 Personal Finance. 3 hours.
Designed to serve the personal finance needs of students regardless of their major field. Practical applications in personal and family financial planning, including credit buying, borrowing, banking, insurance, investments, taxation, estate planning and home ownership. (Fall, Spring)

381 CPS Review I. 3 hours.
Instruction in modern procedures of office operation and the development of a body of knowledge surrounding these procedures. Review of legal aspects that relate to contracts, bailments, agency, employer and employee, sales, commercial paper, insurance, real property and personal property. This course is designed to up-grade experienced, on-the-job secretaries and to provide a refresher and study of the subject areas in preparation for the CPS Examination, which is supervised by the National Secretaries Association (Int.). (On Demand)

382 CPS Review II. 3 hours.
Prerequisites: Experienced Secretary or Junior Standing.
Presentation of applied economics, management and business organization; a study of financial analysis and the mathematics of business. (On Demand)

461 Report Writing. 3 hours.
Methods of report writing. Defining the problem, collecting and organizing information, constructing the report and interpreting the information and presenting of report. (Fall, Spring, Summer)

462 Office Management. 3 hours.
Prerequisite: Senior standing.
Fundamentals of management applied to the administrative services area; the coordination of office services and employees that assists in the achievement of organizational objectives. (Fall, Spring, Summer)

463 Records Management. 3 hours.
Prerequisite: Senior standing.
Designed to develop and operate systems for the retrieval and retention of information and to set forth procedures for the creation, classification, automation and innovation, work measurement and retention and disposition of the various types of written records. (Fall, Spring)

471 Internship in Business and Office Education. 3 hours.
Prerequisites: One of the following: BS ADM 310, BE OA 462, or BE OA 463.
Regular seminars supplemented by on-the-job work experience, including a variety of work assignments that demand adaptation of formal academic background to a working business office environment, and culminated by review and analysis seminars. (Fall, Spring, Summer)

481 Advanced Business Communications. 3 hours.
Prerequisite: Senior standing.
Communication theory applied to office management situations. Communication in the administrative process with emphasis on written and oral communication. (Fall)

DEPARTMENT OF ECONOMICS

GRISE HALL, ROOM 433

Professor John Wassom, Head

Professors: S. Ahmed, K. Cann, S. Lile
D. Needham
Associate Professors: C. Fost, R. Pulsinelli,
C. Roberts
Assistant Professors: M. Borland, R. Cantrell,
W. Davis, S. Jarrell, M. Morgan
Instructor: K. Russell

Economics is a discipline concerned with how society chooses to allocate scarce resources among alternative uses in order to produce and distribute private and public goods.

The programs and course offerings of the Department of Economics are designed to provide a basic understanding of economic concepts, institutions, processes, and problems; to foster critical and analytical methods of thinking, and to lay the foundation for further study of economics.

MAJOR IN ECONOMICS

The major in economics (reference number 638) requires 30 semester hours and leads to a Bachelor of Arts degree. All majors must complete a 15 hour core composed of Economics 202, 203, 206, 302 and 303. The remaining 15 hours for completing the major may be selected as follows: 3 hours in History of Economic Thought (either 490 or 491) and 12 hours from areas III, IV, V, VI and VII with no more than 3 hours from any area. The areas are listed below. Students are also required to complete MATH 116(D) - 3 hrs., MATH 119 - 4 hrs., and LSIM 101(F) - 1 hr. The letter in parentheses indicates the general education category in which the course may be applied for credit. The rest of the general education courses must be taken after advisement by the department head.

MAJOR IN MANAGERIAL ECONOMICS

The major in managerial economics (reference number 724) requires 72 hours in professional and economics courses and leads to a Bachelor of Science degree. The program of study requiring 132 total hours is shown below. The letter in parentheses indicates the general education category in which the course may be applied for credit.

Freshman Year (33 hrs.) ENG 101(A), 102(A), - 6 hrs; SCOM 161(A) - 3 hrs; PHIL 110(A) - 3 hrs; MATH 116(D) - 3 hrs; MATH 119 - 4 hrs; Humanities Elective(B) - 3 hrs; HIST 119(C) or 120(C) - 3 hrs; Natural Science Electives (D) - 3 hrs; Physical Education Elective (E) - 2 hrs; General Education Elective(F) - 2 hrs; LSIM 101(F) - 1 hr.

Sophomore Year (36 hrs.) Humanities Elective(B) - 6 hrs; GOVT 110 or SOCLGY 110(C) - 3 hrs; PSY 100 or 200(C) - 3 hrs; ECON 202(C), 203(C), 206 - 9 hrs; Natural Science Elective(D) - 3 hrs; ACCT 200, 201 - 6 hrs. ENG 183(B) - 3 hrs; ENG 207 - 3 hrs.

Junior Year (33 hrs.) ECON 300, 302, 303, 306 - 12 hrs; MGT 300, 310 - 6 hrs; QBA 313, 340 - 6 hrs; FIN 330 - 3 hrs; MKT 320 - 3 hrs; Natural Science Elective - 3 hrs.

Senior Year (30 hrs.) ECON 305, 310, 414, 440, 460 - 15 hrs; MGT 418 - 3 hrs; QBA 412, 442 - 6 hrs; INFS 245 - 3 hrs; Upper Division Liberal Arts Elective - 3 hrs.

MINOR IN ECONOMICS

The minor in economics (reference number 356) requires 21 semester hours. All minors must complete a 15 hour core composed of Economics 202, 203, 206, 302 and 303. The remaining 6 hours for completing the minor may be selected from areas III, IV, V, VI and VII with normally no more than 3 hours from any area. The areas are listed below. All minors must also complete Mathematics 116.

AREAS

I General Economics: Principles and Theory
150 Introduction to Economics
202 Principles of Economics (micro)
203 Principles of Economics (macro)
302 Microeconomic Theory
303 Macroeconomic Theory
II Economic History and Thought
104 American Economic History
105 European Economic History
490 History of Economic Thought to 1870
491 History of Economic Thought since 1870
III Statistics and Quantitative Economics
206 Statistics
306 Statistical Analysis
464 Introduction to Mathematical Economics
465 Introduction to Econometrics
IV Monetary and Fiscal Theory and Policy
300 Money and Banking
310 Public Finance
450 Central Banking Theory and Monetary Policy
V Economics of Industry and Labor
305 Labor Economics
414 Managerial Economics
440 American Industry: Structure, Performance and Public Policy
VI Economic Development and Fluctuations
370 Economic Development of Latin America
430 Comparative Economic Organization
460 Business and Economic Fluctuations
470 Economic Growth and Development
475 Urban and Regional Economics
VII International Economics
380 International Economics

GRADUATE DEGREE PROGRAMS

The Department of Economics offers a Master of Arts Degree in Economics and also offers courses in support of and in cooperation with the Master of Arts in Education, Master of Business Administration and Master of Public Service Degrees. Students interested in graduate programs should consult the Graduate College Bulletin for detailed information.

COURSES OF INSTRUCTION

ECONOMICS (ECON)

104 American Economic History. 3 hours.
A survey of the growth and development of the American economy and its institutions from colonial times to the present with emphasis on the westward movement, the development of communications and the change from an agrarian to an industrial society. (Every Semester)

105 European Economic History. 3 hours.
A general survey of European economic institutions from the fall of Rome to the present with emphasis on the economic, social, intellectual and political interrelationships that shaped the cultural, commercial and industrial development of Europe. (On Demand)

150 Introduction to Economics. 3 hours.
A general introduction to economic concepts, ideas, institutions and methods of analysis with emphasis on the description of economic processes and the functioning of institutions in a market economy. This course carries no credit toward any major or minor offered in the College of Business Administration. This course cannot be taken after completing Econ. 202 or 203. (Every Semester)

202 Principles of Economics (micro). 3 hours.
Prerequisites: Sophomore standing.
An introduction to basic descriptive, analytical and policy problems at the microeconomic level. The economic problems resulting from the disparity between human wants and the resources required to satisfy those wants will be studied with emphasis placed on the derivation and behavior of supply and demand functions and the role of prices in the allocation of scarce resources. (Every Semester)

203 Principles of Economics (macro). 3 hours.
Prerequisites: Sophomore standing.
An introduction to basic macroeconomics dealing with descriptive, analytical and policy problems involved in the determination of aggregate income, employment and the price level. Areas of emphasis include money and banking, national income accounting and income-expenditure models. (Every Semester)

206 Statistics. 3 hours.
Prerequisites: Econ. 202 or 203 and Math. 116.
An introduction to the methods and techniques of statistical analysis for business and economics including the collection and presentation of data, measures of central tendency and dispersion, estimation, hypothesis testing, linear regression and correlation, time series and index numbers. (Every Semester)

300 Money and Banking. 3 hours.
Prerequisites: Econ. 202 and 203.
An introduction to the functioning of American banking institutions and the theory of money. Emphasis is placed on an analysis of the role of money in a modern market economy, and the influence exerted by commercial banks and the Federal Reserve System. (Every Semester)

302 Microeconomic Theory. 3 hours.
Prerequisites: Econ. 202, 203 and 206.
An intermediate theory course analyzing price determination, output distribution and resource allocation in a market economy. Topics included are consumer behavior, production theory, market structures and their respective efficiency criteria. (Every Semester)

303 Macroeconomic Theory. 3 hours.
Prerequisites: Econ. 202, 203 and 206.
An intermediate theory course analyzing Neo-Classical, Keynesian and Post-Keynesian theories of macroeconomic equilibria. The policy implications of these models with respect to income, output, employment and the price level will be emphasized. (Every Semester)

305 Labor Economics. 3 hours.
Prerequisites: Econ. 302 or permission of instructor.
An introduction to the history of the U.S. labor movement, theories of labor markets and collective bargaining. (Spring)

306 Statistical Analysis. 3 hours.
Prerequisite: Econ. 206.
An introduction to and foundations for using techniques involved in estimating and testing relationships between variables. The course includes advanced topics in hypothesis testing, analysis of variance, multiple regression and correlation analysis and experimental design. (Every Semester)

310 Public Finance. 3 hours.
Prerequisites: Econ. 202, 203 or permission of instructor.
A study of the economics of government spending and taxation. Among the topics covered are: Government's role in promoting widely accepted economic policy objectives; Budgeting and benefit/cost analysis; Effects and incidence of major taxes used in the U.S.; and issues in fiscal-federalism. (Spring)

370 Economic Development of Latin America. 3 hours.
Prerequisites: Econ. 202 and 203 or consent of instructor.
A description and analysis of the economic development of Latin America from colonial times to the present. Emphasis is placed on incentives and barriers to the development of viable national economic systems against the background of diverse social and natural environments. (On Demand)

380 International Economics. 3 hours.
Prerequisites: Econ. 302 and 303.
An introduction to the theory of international trade and monetary relations with emphasis on the determinants of the direction, volume, terms and gains from international trade. (On Demand)

414 Managerial Economics. 3 hours.
Prerequisites: Econ. 202, 203, and 206.
The application of economic principles and tools of analysis to business management decision making in areas of demand, pricing, cost, production and investment. Problems in business decision making are treated in terms of short-run adjustment as well as long-run expansion. (Fall)

430 Comparative Economic Organization. 3 hours.
Prerequisites: Econ. 302 and 303 or consent of instructor.
An analysis of the theories underlying different economic systems. Emphasis is placed on the ideological basis for various forms of economic organization, alternative ways of organizing economic activity and actual and potential degrees of accomplishment. (On Demand)

440 American Industry: Structure, Performance and Policy. 3 hours.
Prerequisites: Econ. 302 and 303 or consent of instructor.
A course in applied price theory in which the structure, behavior and performance of American industry is evaluated in the light of public and private social goals. Public policy toward the promotion of competition and the control of monopoly will be examined. (On Demand)

450 Central Banking Theory and Monetary Policy. 3 hours.
Prerequisites: Econ. 300 and 303.
A course in applied monetary theory and policy. Emphasis is placed on the results of modern research and empirical findings. (On Demand)

460 Business and Economic Fluctuations. 3 hours.
Prerequisites: Econ. 302 and 303.
A study of the causes, patterns of development and consequences of economic fluctuations in a modern industrialized economy. Emphasis is placed on macroeconomic techniques of cycle analysis to determine the dynamic time path of income, output and employment. (Fall)

464 Introduction to Mathematical Economics. 3 hours.
Prerequisites: Econ. 302 and 303.
The application of mathematics to economic analysis, covering algebraic and functional relationships, differential and integral calculus, differential and difference equations, matrix algebra, linear programming and game theory. (On Demand)

Prerequisites: Econ. 306 or consent of instructor.
Presents the use of statistical methods in measuring and testing economic relationships. Emphasizes the use of ordinary least squares in estimating single equation models. Topics included are dummy variables, lagged variables and such problems as autocorrelation, heteroscedasticity, multicolinearity and identification. (On Demand)

470 Economic Growth and Development. 3 hours.
Prerequisites: Econ. 302 and 303.
An introduction to the study of the development process especially in the less developed countries. The course considers the basic problems and issues of economic development, economic models used to analyze the development process and planning for development. (On Demand)

475 Urban and Regional Economics. 3 hours.
Prerequisites: Econ. 202, 203 and 206 or consent of instructor.
Considers the fundamental economic relationships within and between economic and political units in the United States. Emphasis is on applied economic analysis dealing with the characteristics of a region, the urban center and employment. (Spring)

490 Economic Thought to 1870. 3 hours.
Prerequisites: Econ. 202 and 203 and consent of instructor.
The origin and development of economic thought through Marx with emphasis on the contribution of political economy to the behavioral sciences. (Fall)

491 Economic Thought since 1870. 3 hours.
Prerequisites: Econ. 203 and 204 and consent of instructor.
The further development of economic thought from the marginalists to the present. (Spring)

DEPARTMENT OF FINANCE AND QUANTITATIVE BUSINESS ANALYSIS

GRISE HALL, ROOM 233

Professor Harold D. Fletcher, Head

Professor: R. Nelson
Associate Professors: A. Gudikunst, R.Oppitz
Assistant Professors: M. Brashear, B.Madron, C.Morgan
Instructors: M. Gill, J. Graham, M. Lang, T.Nelson, M.Owen, B. Perkins

Business is an integral part of the American society and international relationships. An understanding of its functions, institutions and problem-solving techniques is necessary for responsible and intelligent participation in the world of business and government. The courses and curricula offered by the Department of Finance and Quantitative Business Analysis are structured to provide such an understanding and to educate students who plan careers in finance, banking, real estate, operations research, small business, computer technology, and insurance to function creatively and competently in positions of trust, responsibility, and leadership.

The Department of Finance and Quantitative Business Analysis offers both baccalaureate and associate degree programs. In addition, a certificate program is offered in real estate. The majors in finance, quantitative business analysis, and information systems lead to the Bachelor of Science degree. A minor in information systems is also offered at the baccalaureate level. Two-year programs in banking, information systems, and real estate lead to the Associate of Arts degree.

FINANCE MAJOR

The finance major (reference number 664) requires 63 semester hours and leads to a Bachelor of Science degree. Students must complete the requirements in the major in the sequence outlined below. The letter in parentheses indicates the general education category in which the course may be applied for credit.

Freshman Year (30 hrs.) ENG 101(A), 102(A) - 6 hrs; SCOM 161(A) - 3 hrs; MATH 116(D) - 3 hrs; Humanities Elective(B) - 3 hrs; SOCLGY 110(C) or ANTH 150(C) - 3 hrs; Natural Science Elective(D) - 6 hrs; PHY ED Elective(E) - 2 hrs; General Education Elective(F) - 3 hrs; LSIM 101(F) - 1 hr.

Sophomore Year (34 hrs.) Humanities Elective(B) - 3 hrs; PSY 100(C) or 200(C) - 3 hrs; ECON 202(C), 203(C), 206 - 9 hrs; Natural Science Elective(D) - 3 hrs; MATH 119 - 4 hrs; ACCT 200, 201 - 6 hrs; ENG 183(B) - 3 hrs; HIST 119 or 120(C) - 3 hrs.

Junior Year (33 hrs.) ENG 306 - 3 hrs; ECON 300, 414 - 6 hrs; MGT 300, 310 - 6 hrs; QBA 313 - 3 hrs; MKT 320 - 3 hrs; FIN 330 - 3 hrs; QBA 340 - 3 hrs; Upper Division Liberal Arts Elective - 3 hrs; Humanities Elective(B) - 3 hrs.

Senior Year (31 hrs.) ECON 306 - 3 hrs; FIN 332, 350 or 370, 431, and 435 - 12 hrs; MGT 418 - 3 hrs; Professional Business Electives - 6 hrs; Upper Division Liberal Arts Electives - 7 hrs.

QUANTITATIVE BUSINESS ANALYSIS MAJOR

The quantitative business analysis major (reference number 765) requires 66 semester hours and leads to a Bachelor of Science degree. Students must complete the requirements in the major in the sequence outlined below. The letter in parentheses indicates the general education category in which the course may be applied for credit. Freshman, Sophomore, and Junior years are the same as for Finance majors.

Senior Year (31 hrs.) - CPRS 241 or INFS 245 - 3 hrs; ECON 306, 464 or 465 - 6 hrs; CPRS 447 - 3 hrs; QBA 412, 440 or 442 - 6 hrs; MGT 418 - 3 hrs; Professional Business Elective - 3 hrs; Upper Division Liberal Arts Elective - 4 hrs.

INFORMATION SYSTEMS MAJOR

The information systems major (reference number 706) requires 72 semester hours and leads to a Bachelor of Science degree. Students must complete the requirements in the major in the sequence outlined below. The letter in parentheses indicates the general education category in which the course may be applied for credit.

Freshman Year (34 hrs.) ENG 101(A), ENG 102(A) - 6 hrs; PHIL 110(A), 210(F) - 6 hrs; MATH 116(D) - 3 hrs; HIST 119 or 120(C) - 3 hrs; Natural Science Elective(D) - 3 hrs; Physical Education Elective(E) - 2 hrs; INFS 142, 242 - 6 hrs; MATH 119 - 4 hrs; LSIM 101(F) - 1 hr.

Sophomore Year (33 hrs.) ECON 202(C), 203(C) - 6 hrs; ENG 183(B) - 3 hrs; Social Science Elective(C) - 6 hrs; Natural Science Elective(D) - 6 hrs; Humanities Elective(B) - 3 hrs; ACCT 200, 201 - 6 hrs; INFS 245 - 3 hrs.

Junior Year (30 hrs.) - Upper Division Humanities Elective(B) - 6 hrs; ECON 206, 306 - 6 hrs; MGT 310 - 3 hrs; MKT 320 - 3 hrs; FIN 330 - 3 hrs; INFS 341, 342 - 6 hrs; Professional Business Elective - 3 hrs.

Senior Year (31 hrs.) ACCT 310 - 3 hrs; MGT 300, 418 - 6 hrs; QBA 313, 442 - 6 hrs; BDEOA 350 or 461 - 3 hrs; ECON 414 - 3 hrs; INFS 346 or 347 or 348, 449 - 6 hrs; Free Electives - 4 hrs.

INFORMATION SYSTEMS MINOR

The minor in information systems (reference number 347) requires 18 semester hours. Required courses are: INFS 142; two courses selected from INFS 242, 245, 341; INFS 342, 440; QBA 442, or GOVT 401 or PSY 210 or SOCLGY 390 or other methodology course related to major area of study, selected in consultation with the Information Systems advisor.

ASSOCIATE DEGREE PROGRAM IN BANKING

The two-year program in banking (reference number 211) requires 66 semester hours and leads to an Associate of Arts degree. Required courses are ACCT 200, 201; MGT 262; ECON 202, 203; BDEOA 161, 101, 350, 361; ENG 101; SBM 100, 255; INFS 142; BNK 160, 260, 264, 266, 267, 268; PSY 100; SCOM 161; and 3 hours of electives.

ASSOCIATE DEGREE PROGRAM IN INFORMATION SYSTEMS

The two-year program in information systems (reference number 223) requires 65 semester hours and leads to an Associate of Arts degree. The program offers up-to-date preparation for positions in business or industrial data processing systems. It also offers a base upon which to build a more sophisticated data processing education in preparation for middle management positions. The requirements for the program are: ACCT 200, 201, 310; SBM 250; BDEOA 350; ENG 101, 102; ECON 202 or 203, 206; SBM 100; INFS 142, 242, 245, 341, 342; MATH 109, 116 or 118; LSIM 101; PHIL 110, 210; Social Science Electives - 6 hours; Free Electives - 4 hours.

ASSOCIATE DEGREE PROGRAM IN REAL ESTATE

The two-year program in real estate (reference number 284) requires 72 semester hours and leads to an Associate of Arts degree. Required courses are: ACCT 200, 201; MGT 273; BDEOA 161, 350, 361; ECON 150; ENG 101; GEOG 240, 250; HEFL 280; SBM 100; RET 150, 230; RE 170, 171, 272, 274, 275; IND ED 351; SCOM 161.

CERTIFICATE PROGRAM IN REAL ESTATE

The one-year program in real estate (reference number 195) requires a minimum of 18 semester hours and leads to a certificate. Required courses are: MGT 273; RE 170, 171, 272, 274, 275.

COURSES OF INSTRUCTION

FINANCE (FIN)

330 Financing Business. 3 hours.
This course is concerned with the application of financial data to management problems. A familiarization is developed with basic tools of financial analysis, planning and control. (Fall, Spring, Summer)

332 Investments. 3 hours.
Prerequisite: FIN 330.
An examination is made of investment institutions, market mechanics and investment media. On an elementary basis, the course deals with the setting of investment objectives, portfolio building and the problems of selection and timing. (Fall, Spring)

350 Risk Management and Insurance. 3 hours.
Fundamental principles of risk and insurance and their application to risk situations. Provides the basic knowledge for intelligent solution of personal and business risk problems. (Fall, Spring)

370 Principles of Real Estate. 3 hours.
Deals generally with urban real estate with emphasis on principles and practices of the real estate business. (Fall)

430 Senior Seminar—Finance. 1-3 hours.
Conducted at selected times covering special topics of current interest to finance students. Class format varies with instructor. (On Demand)

431 Case Problems in Finance. 3 hours.
Prerequisite: FIN 330.
At an advanced level and using the case method of instruction, this course examines the problems of raising and utilizing funds by business firms. (Fall)

432 Security Analysis. 3 hours.
Prerequisite: FIN 332.
A higher level exposure to investment analysis. Deals with current theory and practice relating to security selection and timing as well as portfolio management. (On Demand)

435 Commercial Bank Management. 3 hours.
Prerequisite: FIN 330.
This course deals with the sources and uses of bank funds. Emphasis is placed upon the economic factors which determine their structure and size. Some of the topics considered are: measuring deposit variability, primary and secondary reserve accounts, the banking structure and the determinants of cost and profits. (Spring)

QUANTITATIVE BUSINESS ANALYSIS (QBA)

313 Quantitative Methods for Management. 3 hours.
Prerequisites: MGT 310, ECON 206.
An introduction to those quantitative techniques which aid management decisions: decision theory, linear programming, transportation models, elementary inventory models, waiting line, Markov chains and simulation in business. (Fall, Spring, Summer)

340 Introduction to Data Processing. 3 hours.
A survey of the hardware, software and professional skills of today's data processing in business and government, with an emphasis on the economics of information systems. The student is required to prepare several programming assignments and, in doing so, acquires some hands-on computer experience. The work of the systems analyst is also introduced. (Fall, Spring, Summer)

412 Production Management. 3 hours.
Prerequisite: QBA 313.
A study of the role of production/operations management. Presents a framework for the design of productive systems for manufacturing and non-manufacturing operations. Also deals with the operations planning and control of production systems. Visits to industrial plants are part of the course. (Spring)

442 Management Systems. 3 hours.
Prerequisites: MGT 310, QBA 340.
This course focuses upon the problems of furnishing executives with the information they need for planning, control and other decision-making functions. Case studies illustrate the use of modern software and hardware and the advancement from classic computer applications to more sophisticated systems. (Spring)

BANKING (BNK)

160 Principles of Bank Operations. 3 hours.
This course provides an introduction to basic banking services and to the development and nature of the American banking system. (Fall, Spring)

260 Bank Management. 3 hours.
Prerequisite: BNK 160.
This course deals with the organization of a commercial bank, asset and liability management, liquidity management, banking structure and competing financial institutions. Some use of case materials is made. (Fall, Spring)

264 Credit Administration. 3 hours.
Prerequisite: BNK 160.
This course examines the factors determining loan policy. Methods of credit investigation and analysis, normal and unique credit problems and financial statement analysis are explained. (Spring)

266 Marketing Bank Services. 3 hours.
Prerequisite: BNK 160.
Course provides an application of marketing principles to banking. Topics covered include the organization of bank marketing, information systems and the role of promotion, advertising and pricing of bank services. (Spring)

267 Trust Operations. 3 hours.
Prerequisites: BNK 160, 260, MGT 262.
This course examines the trust functions and services provided by institutions engaged in Trust Business. The course endeavors to keep clear the distinction between the business and legal aspects of trust operations. (Fall)

268 Internship-Banking. 3 to 6 hours.
Prerequisite: Consent of advisor to Associate of Arts Degree Program in Banking.
This is a structured internship to provide the advanced student with a practical working-learning opportunity. (Summer)

INFORMATION SYSTEMS (INFS)

142 Fundamentals and Applications of Data Processing. 3 hours.
An introduction to electronic data processing business systems. Includes an introduction to systems analysis and design, flow charting and programming. (Fall, Spring, Summer)

242 Principles of RPG II Programming. 3 hours.
Prerequisites: INFS 142 or consent of instructor.
An introduction to the programming of problems for computers in RPG II. Focus is on business applications for small computer systems. (Fall, Spring)

245 Principles of FORTRAN Programming. 3 hours.
Prerequisite: INFS 142 or QBA 340.
Programming of problems for computers in FORTRAN. Work involves practice problems requiring the preparation of flow charts, block diagrams and coding; the preparation of source programs; and test running on computer equipment. Strong emphasis is placed on problem solving in multidisciplinary situations. (Fall, Spring)

341 COBOL Programming. 3 hours.
Prerequisites: INFS 142 or QBA 340.
Programming of problems for computers in COBOL. Work involves practice problems requiring the preparation of flow charts, block diagrams and coding; the preparation of source programs; and test running of computer equipment. (Fall, Spring)

342 Information Systems Analysis and Design. 3 hours.
Prerequisite: INFS 341.
A study of systems analysis and design with emphasis on total systems, data sources, information flows, feasibility studies and the planning of computer applications. Topics include information technology, on-line realtime systems, time sharing and information retrieval. (Fall, Spring)

346 Advanced PRG-II Programming. 3 hours.
Prerequisite: INFS 242 or consent of instructor.
A course exploring advanced programming techniques and concepts in RPG-II. Includes work with disk and tape, and additional work with tables and arrays. (On Demand)

347 Advanced FORTRAN Programming. 3 hours.
Prerequisite: INFS 245 or consent of instructor.
A course exploring advanced programming techniques and concepts in FORTRAN. Includes work with disk tape, and interactive and timesaving systems. (On Demand)

348 Advanced COBOL Programming. 3 hours.
Prerequisite: INFS 341 or consent of instructor.
A course exploring advanced programming techniques and concepts in COBOL. Includes work with disk, tape, and interactive and timesharing systems. (On Demand)

440 Senior Seminar—Information Systems. 3 hours.
Prerequisites: INFS 342 or consent of instructor.
Particular attention is given to research projects of a special interest in the field of data processing. (Spring)

449 Independent Study in Information Systems. 1-3 hours.
Directed study and research in one area of data processing. (On Demand)

REAL ESTATE (RE)

170 Essentials of Real Estate. 3 hours.
A course designed for students who plan to pursue the real estate certificate. Introduces essentials and practices of the real estate business. (Fall, Spring)

171 Real Estate Marketing I. 3 hours.
Organization and conduct of real estate brokerage. Considers the social, economic, legal and ethical responsibilities of the real estate business. (Fall, Spring, Summer)

172 Real Estate Marketing II. 3 hours.
Prerequisite: RE 171 or consent of instructor.
A continuation of Real Estate Marketing I designed to develop proficiency in preparing contracts, applying the fundamental of advertising, and utilizing the mechanics of real estate salesmanship. (Fall, Spring, Summer)

272 Real Estate Finance. 3 hours.
Prerequisite: RE 170.
This course covers the basic methods and problems of financing real estate purchases. (Fall, Spring)

274 Real Estate Appraisals. 3 hours.
Prerequisites: RE 170.
Covers all facets of appraisal practices and the differing approaches to establishing the value of real property. (Fall, Spring)

275 Property Management. 3 hours.
Prerequisites: RE 170, 272, 274.
Course covers techniques of real estate resource utilization used by specialists in the field. Covers the fundamentals of selection, development and management of office buildings, industrial properties and conventional housing. Includes such topics as maintenance, tenant relations, credit and collections and accounting. (Spring)

276 Real Estate Investment. 3 hours.
Prerequisite: RE 272, 274 or consent of instructor.
Basic principles and practices of investing in real estate. Investment strategy emphasizing cash flow projection, yield, risk and analyzing investment return. (Spring)

DEPARTMENT OF MANAGEMENT AND MARKETING

GRISE HALL, ROOM 200

Associate Professor Lawrence Finley, Acting Head

Professors: E. Busch, E. Evans, J. Herick
Associate Professors: M. Salem, J. Wilson
Assistant Professors: A. Albadawy, L. Almond, D. Bradley, S. Nelson, W. Parker, B. Sullivan, R. Ayres, J. Boles, L. Schira
Instructor: C. English

The effective business person of today must have competence in many disciplines, an understanding of a wide variety of relationships, and the ability to analyze evolving requirements. Regardless of specialty, the business or government professional must also be a leader of people who knows how to assemble and motivate groups to serve the goals of diverse organizations. The courses and curricula of the Department of Management and Marketing are designed to prepare students who plan careers in management, marketing, personnel, industrial relations, small business, and international business to assume positions of leadership and responsibility in an innovative and skillful manner.

The Department of Management and Marketing offers programs leading to the Bachelor of Science degree and the Associate of Arts degree. Majors in management, marketing, and comprehensive business are offered at the baccalaureate level as is a minor in business administration. Associate degree programs in retailing and small business management are offered.

MANAGEMENT MAJOR

The management major (reference number 723) requires 63 semester hours and leads to a Bachelor of Science degree. Students must complete the requirements in the major in the sequence recommended below.

Freshman Year (30 hrs.) ENG 101(A), 102(A) - 6 hrs; SCOM 161(A) - 3 hrs; MATH 116(D) - 3 hrs; Humanities Elective(B) - 3 hrs; SOCLGY 110(C) or ANTH 150(C) - 3 hrs; Natural Science Elective(D) - 6 hrs; PHY ED Elective(E) - 2 hrs; General Education Elective(F) - 3 hrs; LSIM 101(F) - 1 hr.

Sophomore Year (34 hrs.) Humanities Elective(B) - 3 hrs; PSY 100(C) - 3 hrs; ECON 202(C), 203(C), 206 - 9 hrs; Natural Science Elective(D) - 3 hrs; MATH 119 - 4 hrs; ACCT 200, 201 - 6 hrs; ENG 183(B) - 3 hrs; HIST 119 or 120(C) - 3 hrs.

Junior Year (33 hrs.) ENG 306 - 3 hrs; ECON 300, 414 - 6 hrs; MGT 300, 310 - 6 hrs; QBA 313, 340 - 6 hrs; MKT 320 - 3 hrs; FIN 330 - 3 hrs; Upper Division Liberal Arts Electives - 6 hrs.

Senior Year (31 hrs.) MGT 311, 416, 417, 418 - 12 hrs; QBA 412, 442 - 6 hrs; Professional Business Electives - 6 hrs; Upper Division Liberal Arts Electives - 7 hrs.

MARKETING MAJOR

The marketing major (reference number 720) requires 66 semester hours and leads to a Bachelor of Science degree. Students must complete the requirements in the major in the sequence recommended below. The letters in parentheses indicates the general education category in which the courses may be applied for credit.

Freshman, Sophomore, and Junior years are the same as for management majors.

Senior Year (31 hrs.) ECON 306 - 3 hrs; MKT 321, 322, 421, 422, 423 - 15 hrs; MGT 418 - 3 hrs; Professional Business Electives - 6 hrs; Upper Division Liberal Arts Electives - 4 hrs.

COMPREHENSIVE BUSINESS MAJOR

The major in comprehensive business (reference number 628) requires 63 semester hours and leads to a Bachelor of Science degree. Students must complete the requirements in the major in the sequence recommended below.

Freshman, Sophomore, and Junior years are the same as for management majors.

Senior Year (31 hrs.) MKT 321 - 3 hrs; FIN 332 - 3 hrs; MGT 417, 418 - 6 hrs; QBA 412, 442 - 6 hrs; Professional Business Electives - 6 hrs; Upper Division Liberal Arts Electives - 7 hrs.

BUSINESS ADMINISTRATION MINOR

The minor in business administration (reference number 332) requires 24 semester hours of business administration and accounting courses. Students pursuing majors in other departments throughout the University may receive basic exposure to the functional area of business by electing a minor in Business Administration. Many interesting and beneficial major-minor combinations exist which may enhance the student's career opportunities, e.g., agriculture-business, journalism-business, textiles and clothing-business or recreation-business.

The student who plans to minor in business administration must complete Mathematics 116 and Economics 202 and 203 as background for the advanced work. Mathematics 116 may be applied in Category D of the General Education requirements. Economics 202 and 203 may be applied in Category C. The above mentioned courses must be completed before beginning the 24 hour minor sequence as follows: ACCT 200 and 210; ECON 206; MGT 300, 310; QBA 340; MKT 320; FIN 330.

ASSOCIATE DEGREE PROGRAM IN RETAILING

The two-year program in retailing (reference number 287) requires 64 semester hours and leads to an Associate of Arts degree. Required courses are: ACCT 200; BDEOA 161, 350; ECON 150; SBM 100, 250, 252, 254, 255, 256; QBA 142; RET 150, 210, 230, 253; SCOM 161; MGT 301; and 4 hours of free electives.

ASSOCIATE DEGREE PROGRAM IN SMALL BUSINESS MANAGEMENT

The two-year program in small business management (reference number 293) requires 64 semester hours and leads to an Associate of Arts degree. Required courses are: ACCT 200, 201; MGT 301; BDEOA 161; ECON 202, 203; ENG 101, 102; SBM 100, 250, 252, 254, 255, 256; SCOM 161; RET 253; QBA 142; 3 hours of humanities electives; 6 hours of social studies electives; and 4 hours of free electives.

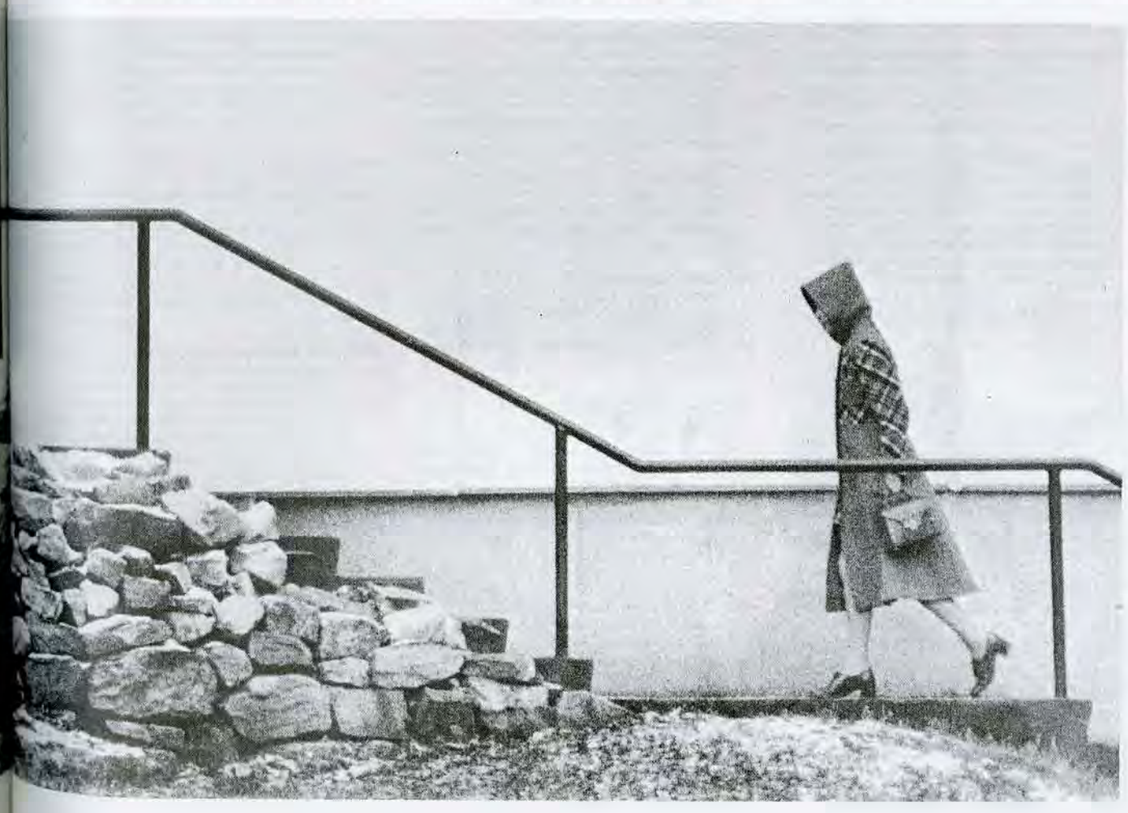
COURSES OF INSTRUCTION

MANAGEMENT (MGT)

226 Introduction to Law. 3 hours.
Designed to provide the undergraduate with an exposure to the nature of law and the legal process through the study of real world controversies and human behavior including the effect of legal regulation as an instrument of social control. Explores the extent to which moral authority has attached to legal regulations. (On Demand)

262 Banking Law. 3 hours.
Prerequisite: BNK 160.
An introduction to the rules of law which cover banking. Emphasis is on the Uniform Commercial Code. Topics include contracts, negotiable instruments, documents of title and secured transactions. (On Demand)

273 Real Estate Law. 3 hours.
Examines all phases of the legal aspects of the real estate business, including brokerage, legal real estate instruments, etc. (On Demand)



300 Legal Environment of Business. 3 hours.
Prerequisite: Junior standing.
This course seeks to develop a general understanding of the American legal system, the use of law to achieve economic and social goals and the expanding legal responsibilities of the business manager. (Fall, Spring, Summer)

301 Business Law I. 3 hours.
This is a basic course in law as it relates to business. It covers fundamental legal processes, principles, concepts and techniques at work in the law of contracts, property, creditor rights, torts and other bases for liability. The Uniform Commercial Code is considered. (Fall, Spring, Summer)

302 Advanced Business Law. 3 hours.
Prerequisite: MGT 301.
The topics introduced in Legal Area Studies 301 are expanded and examined in greater depth in this advanced course. (On Demand)

310 Organization and Management. 3 hours.
An introduction to the fundamental concepts, processes and techniques of organization and management. (Fall, Spring, Summer)

311 Personnel Management. 3 hours.
Prerequisite: MGT 310 or permission.
This course integrates policies and procedures of work force direction into overall management. It considers people as the most important factor of management and develops systems for optimum utilization of the work force. Also included are concepts of attitudes, morale, motivation and communications. (Fall, Spring, Summer)

410 Senior Seminar—Management. 1-3 hours.
Conducted at selected times covering special topics of current interest to management students. Class format varies with instructor. (On Demand)

416 Union-Management Relations. 3 hours.
This course builds upon concepts developed in basic management and personnel management courses. It provides an extensive background for and an exploration of management theory and practice in the areas of collective bargaining relationships and arbitration procedures. (Spring)

417 Organizational Behavior and Theory. 3 hours.
This course is designed to provide the student with a basic understanding of human behavior in complex social organizations and of attendant managerial problems and challenges. Management and behavioral science concepts, techniques and research are applied toward the goal of increasing human productivity and satisfaction in group and organizational settings. (Spring)

418 Business Policy and Strategy. 3 hours.
Prerequisites: Last semester senior standing.
A capstone course designed to integrate the student's knowledge of business administration, including the functions of management, marketing, finance and production. Emphasis is placed on complex business cases, a dynamic computer simulation game, and on interactive team work in small groups. (Fall, Spring, Summer)

MARKETING (MKT)

320 Basic Marketing Concepts. 3 hours.
Introduction to the functional activities of marketing and the importance of consumer orientation to institutional and organizational operations. (Fall, Spring, Summer)

321 Consumer Behavior. 3 hours.
Prerequisite: MKT 320 or permission.
An analysis of information from the behavioral sciences which relates to consumer behavior. Presents economic, psychological and cultural theories and research findings which attempt to describe the morphology and structure of consumer decisions. (Fall, Spring, Summer)

322 Promotional Strategy. 3 hours.
Prerequisite: MKT 320.
An analysis of the various communications networks and messages which influence individual and cultural behavior patterns pertaining to alternative types of marketing activities. (Spring)

420 Senior Seminar—Marketing. 1-3 hours.
Conducted at selected times covering special topics of current interest to marketing students. Class format varies with instructor. (On Demand)

421 Marketing Research. 3 hours.
Prerequisite: MKT 320.
The application of statistical and behavioral research techniques to the problems of marketing operations in the business firm. (Spring)

422 Marketing Management. 3 hours.
Prerequisite: MKT 320.
An in-depth analysis of quantitative and qualitative factors involved in the planning, analysis and control of marketing strategies and tactics. (Spring)

423 Physical Distribution Management. 3 hours.
Prerequisite: MKT 320.
Examines the management aspects of business firms in moving their raw materials and finished goods through traffic, warehousing, industrial packaging, materials handling and inventory. A systematic examination of the trade-off possibilities and management alternatives to minimize cost of product flow and maximize customer service is provided. (Fall)

SMALL BUSINESS MANAGEMENT (SBM)

100 Introduction to Business. 3 hours.
A survey covering forms of business ownership, management, office and personnel management, production, finance, insurance, marketing, transportation, and business law and ethics.

250 Small Business Management I. 3 hours.
This course is a general and introductory study of the decision-making process in small business. The course is specifically designed for the Associate of Arts program in Small Business Management.

251 Small Business Management II. 3 hours.
A course that provides the student interested in small business management with experience in decision-making through the use of cases.

252 Sales Management. 3 hours.
The managerial aspects of planning the sales effort, the management of sales and service personnel and the fundamentals of selling process.

254 Small Business Promotion. 3 hours.
This course covers the concepts of sales promotion, publicity, public relations and management of customer directed appeals in relation to the small business operation.

255 Small Business Finance and Risk Management. 3 hours.
This course deals with acquisition of funds, capital structures, analysis of financial statements and earnings and rate of return analysis. Proprietorships, partnerships and corporations are discussed in relation to business risk. Also, insurance as a means of mitigating business risk is covered.

256 Supervisory Management. 3 hours.
This course assists a supervisor in attaining a better understanding of modern first-line supervision. The course is specifically designed toward Mid-Management responsibility for good human relations.

RETAILING (RET)

150 Principles of Salesmanship. 3 hours.
The role of selling in distribution, basic knowledge and characteristics of sales personnel and methods and techniques involved in selling. Emphasis is placed upon student demonstration through simulation and role playing of effective sales procedures.

210 Retail Merchandising. 3 hours.
Prerequisite: MATH 109 or BDEOA 161.
This course is concerned with developing basic competencies essential to successful retail merchandising. The study of the basic and social skills essential in merchandising and the analysis of merchandising functions and activities.

230 Internship-Retailing. 12 hours.
Prerequisite: Consent of advisor to Associate of Arts Degree program in Retailing.
This course requires the student to complete one semester of planned and supervised employment in an approved training station (retail business) to be selected jointly by advisor and student. Training plan and training agreement are arranged and written reports are required. Students receive on-the-job management training and pay accordingly.

253 Retail Management. 3 hours.
A survey course covering the principles of successful retail management and emphasizing analytical and research methods applicable to retail management problems.

College of Education

Dr. J. T. Sandefur, Dean
College of Education, 201

The College of Education is composed of the departments of Educational Leadership, Industrial Education and Technology, Physical Education and Recreation, Psychology, Teacher Education and the Division of Educational Services. Within the college special programs are offered in Adult Education, Career and Vocational Teacher Education, Counselor Education, Distributive Education, Early Childhood Education, Elementary Education, Health Occupation Education, Junior High/Middle School, Reading Education, Recreation, Educational Administration, Secondary Education and Education of Exceptional Children. The College of Education also operates an on-campus laboratory school involving a K-6 program.

The departments offer majors, minors and areas of concentration to students pursuing baccalaureate degrees. Various graduate programs are offered through the Graduate College. The Department of Educational Leadership offers only graduate programs which are described in the Graduate College catalog.

This College offers programs which are specifically designed for the professional growth of teachers and school leaders. These programs encompass the pre-service, in-service and continuing education aspects of the teacher's professional preparation. Within this framework, the programs serve to develop positive attitudes toward the profession of teaching, skills in specific areas and skills and techniques necessary for continuous professional growth. In addition, the college offers programs to prepare competent, functioning professionals to fulfill select roles in business, government and industry.

While the College of Education assumes primary responsibility for the professional preparation of teachers, the opportunity to educate teachers for the schools of the Commonwealth and the Nation is seen as a function of the total institution.

Those interested in more detailed information about programs offered by units of this college should write directly to the appropriate department or to the Dean of the College of Education.

DEPARTMENT OF INDUSTRIAL EDUCATION AND TECHNOLOGY

ENVIRONMENTAL SCIENCES AND TECHNOLOGY BUILDING, ROOM 204

Professor F. Conley, Head

Professors: E. Hein, F. Pittman, D. Wendt
Associate Professors: R. Eversoll, G. Roberts, T. Tomazic
Assistant Professors: J. Crisp, W. Dye, H. Lowrey, W. McPhail, D. Towell
Instructors: R. Clark, E. Ezell, T. Frisbee, J. Lyons

The Department of Industrial Education and Technology provides course work in three fields: industrial arts education, industrial technology and vocational-industrial and technical teacher education.

This department offers a broad and varied program of study for those desiring (1) to pursue careers in business and industry, (2) to teach industrial-technical subjects, (3) to teach industrial arts in public schools, (4) to broaden general educational experiences, or (5) to strengthen other majors or minors.

Program requirements printed in this catalog apply for students enrolled in Industrial Arts Education or Vocational-Industrial and Technical Teacher Education for the first time during the fall semester 1977 and thereafter. Students enrolled in these programs prior to fall 1977 may, with advisor's approval, be allowed to follow the curriculum outlined in the catalog that was current at the time they first enrolled.

From time-to-time off-campus field trips may be utilized in courses offered in this department as a part of, or supplementary to, the regular instructional content. Such off-campus experiences must be under the direction and supervision of appropriate University personnel and executed within the policy set forth by the University.

Laboratory courses in this department often involve the use of laboratory equipment and machinery. Students must follow established guidelines and safety procedures when working in the laboratories. Improper use of laboratory equipment is dangerous.

Several course numbers have been changed and students should consult with their advisor for clarification.

MAJOR IN INDUSTRIAL ARTS EDUCATION

The major in industrial arts education (reference number 701) is designed for those who plan to teach industrial arts in public schools and leads to a Bachelor of Science degree. Graduates of this program can qualify for the Kentucky provisional high school certificate for teachers of industrial arts (industrial education, orientation/exploration).

The program requires a minimum of 36 semester hours of technical industrial education, 23 semester hours of professional industrial education, 54 semester hours of general education and an approved second major or minor. Graduates of this program must have industrial work experience. The work experience component can be met by one of the following: (a) 1,000 clock hours of work experience related to the goals of teacher preparation in industrial education, (b) a minimum of 320 clock hours of work or work observation approved and supervised by the industrial education and technology department. A maximum of 3 semester hours of credit for the work experience component may be applied toward the technical industrial education requirements. Degree programs must be carefully planned with the departmental advisor.

Required courses are: IE 103, 115, 120, 202, 290, 310, 365, 490, Psychology 100 and 320, and Education 380 and 490. Students are also required to select two of the following four industrial education courses IE 320, 321, 322, 361. Nine to twelve hours of approved technical industrial education electives are also required. Suggested course sequence outlines are available from the Industrial Education and Technology Department.

MAJOR IN INDUSTRIAL TECHNOLOGY

The major in industrial technology (reference number 704) requires a minimum of 32 semester hours and leads to a Bachelor of Science degree.

The purpose of the major in industrial technology is to provide students with technical preparation that will help them realize occupational and educational goals. Many students majoring and minoring in other university programs may obtain a technology major or minor to strengthen their career preparation. Individualized programs are planned to satisfy each individual student's needs and aspirations. Courses are selected to complement other majors and/or minors and to help students prepare for a specific career. Their program of studies will include a balance of basic and advanced courses. Programs must be planned in advance with an Industrial Technology advisor.

AREA OF CONCENTRATION IN INDUSTRIAL ARTS EDUCATION

The area of concentration in industrial arts education (reference number 568) is designed for those who plan to teach industrial arts in public schools and do not wish to obtain a minor or second major in another subject matter field. The area of concentration leads to a Bachelor of Science degree. Graduates of this program can qualify for the Kentucky provisional high school certificate for teachers of industrial arts (industrial education, orientation/exploration).

The program requires a minimum of 51 semester hours of technical industrial education, 23 semester hours of professional industrial education, 54 semester hours of general education. Graduates of this program must have industrial work experience. The work experience component can be met by one of the following: (a) 1,000 clock hours of work experience related to the goals of teacher preparation in industrial education, (b) a minimum of 320 clock hours of work or work observation approved and supervised by the industrial education and technology department. A maximum of 3 semester hours of credit for the work experience component may be applied toward the technical industrial education requirements. Area of concentration degree programs must be carefully planned with the departmental advisor.

Required courses are: IE 103, 115, 120, 202, 290, 310, 365, 366, 490, Psychology 100 and 320, and Education 380 and 490. Students are also required to select three of the following four industrial education courses IE 320, 321, 322, 361. Twenty-one to twenty-four hours of approved technical industrial education electives are also required. Suggested course sequence outlines are available from the Industrial Education and Technology Department.

Suggested course sequence outlines are available from the Industrial Education and Technology Department.

AREA OF CONCENTRATION IN INDUSTRIAL TECHNOLOGY

The area of concentration in industrial technology (reference number 571) is a 128 hour program and leads to a Bachelor of Science Degree. The program is designed to provide a broad range of experiences in industrial technology. It appeals to high school graduates seeking technical training, students completing a vocational school program who wish to broaden their educational preparation and people working in industry who wish to advance in their occupation or to prepare for a new position.

Studies include practical laboratory and work related experiences coupled with related technical information.

Specialization may also be planned in one or more of the following areas: Architectural Design and Drafting, Building Construction, Graphic Reproduction (printing), Industrial Design and Drafting, Industrial Plastics, Manufacturing, Metals, Power Mechanics, Technical Illustration and Wood Products.

Graduates find employment in business and industry under the broad categories of industrial trainee, product development, manufacturing, industrial sales, midmanagement and supervision.

The program requires a minimum of 52 hours in industrial technology, 54 hours in general education, 12 hours in related electives, and 10 hours of electives. Required courses in industrial technology are IE 103, 115, 120, 202, 214, 220, 230, 327, 357 or 498 and 313 or 360.

Programs must be carefully planned and all courses selected in consultation with the Departmental advisor.

AREA OF CONCENTRATION IN VOCATIONAL-INDUSTRIAL AND TECHNICAL TEACHER EDUCATION

The area of concentration in vocational-industrial and technical teacher education (reference number 599) is designed to prepare the degree candidate to teach vocational-industrial education subjects in the public vocational schools and leads to a Bachelor of Science degree. Graduates of this program can qualify for the Kentucky provisional high school certificate for teachers of vocational-industrial education (industrial education, preparation).

The program requires a minimum of 48 semester hours of specialized (technical) industrial education, 23 semester hours of professional industrial education, and 54 semester hours of general education. In addition to the course work requirements graduates of this program must have a minimum of (3) years of approved work experience in the teaching trade or occupation or 2,000 clock hours of planned and supervised work experience in the trade or occupation to be taught. A maximum of 9 semester hours of credit for supervised work experience may be allowed and applied toward the specialized (technical) industrial course work requirement. Area of concentration degree programs must be carefully planned with the program advisor.

Required courses are: IE 365, 366, 364, 463, Education 380 and Psychology 320. Specialized (technical) courses relating to the teaching trade or occupation are selected by the program advisor to include a minimum of 24 semester hours credit in the specific trade or occupational area to be taught.

MINOR IN INDUSTRIAL TECHNOLOGY

The minor in industrial technology (reference number 395) requires a minimum of 18 semester hours. The purpose of the minor in industrial technology is to provide students with technical preparation that will help them realize occupational and educational goals. Many students majoring and minoring in other university programs may obtain a technology major or minor to strengthen their career preparation. Individualized programs are planned to satisfy each individual student's needs and aspirations. Courses are selected to complement other majors and/or minors and to help students prepare for a specific career. Their program of studies will include a balance of basic and advanced courses. Programs must be planned in advance with an Industrial Technology advisor or the Head of the Industrial Education and Technology Department.

ASSOCIATE DEGREE PROGRAMS

The Department of Industrial Education and Technology offers an associate degree in Architectural Drafting Technology (reference number 207), Aviation Maintenance Technology (reference number 209), Building Construction Technology (reference number 214), Drafting and Design Technology (reference number 229), Graphic Reproduction Technology (reference number 241), Industrial Electrical Technology (reference number 247), Industrial Plastics Technology (reference number 250), Manu-

facturing Technology (reference number 257), Metals Technology (reference number 266), Power Mechanics Technology (reference number 278), Printing Technology (reference number 279), Technical Illustration (reference number 292), Wood Products Technology (reference number 299) and Vocational-Industrial and Technical Teacher Education (reference number 296). All of the associate degrees are Associate of Science degrees. For further information about these programs, consult the Bowling Green Community College Bulletin or the Head of the Department of Industrial Education and Technology.

GRADUATE DEGREE PROGRAMS

Students who aspire to further their education for the purpose of attaining greater depth and degree of specialization may undertake graduate study in the field of Industrial Education and pursue the Master of Arts Degree in Education with a major or a minor in Industrial Education.

A number of assistantships are available to outstanding graduate students. For further information, see the Graduate College Bulletin or contact the Dean of the Graduate College or the Head of the Department of Industrial Education and Technology.

COURSES OF INSTRUCTION

101 Industrial Design. 2 hours.
An introductory course dealing with the study of principles and practices of design and its relationship to product and project development. Lecture and laboratory. (Fall, Spring)

103 Introduction to Wood Processing. 3 hours
A survey course dealing with many facets of the wood products industry. Study includes the various forms of wood and ways that it is utilized to produce modern wood products. Exercises, experiments and projects required. Lecture, demonstration and laboratory. (Fall, Spring)

105 Survey of Drafting. 3 hours.
A survey of basic techniques and practices in several areas of mechanical and architectural drafting. Major areas covered are: lettering, dimensioning, floor planning, perspectives, pictorial drawing, three-view drawing and other mechanical drafting practices. This course may not be used by industrial education and technology majors to meet program requirements. Lecture and laboratory. (Fall, Spring)

107 Orientation To Industrial Technology.
1 hour.
Designed for beginning students, this seminar course provides an orientation and overview of the industrial technology field and departmental offerings in terms of: programs available, content of courses, job opportunities, nature of work to be performed on the job, program sequence, competency testing, prerequisites and other timely topics. (Fall, Spring)

108 Introduction to Fluid Power Mechanics.
3 hours.
An introduction to basic concepts of industrial fluid power, methodology, and controls. Emphasis is placed on related theory and "hands on" experiences in three areas: pneumatics, hydraulics, and miniaturized moving parts air logic. Lecture and laboratory. (Spring)

115 Basic Metals. 3 hours.
A basic course in the area of general metal technology. The course is primarily confined to metal working tools, conventional machine tools, heat treating and metal testing. It includes the following phases of metal technology: general metals, forging and metallurgy. Lecture and laboratory. (Fall, Spring)

120 Basic Electricity. 3 hours.
A study of the basic concepts of direct and alternating current including the electron theory, Ohm's Law and various types of circuits. Also discussed are such topics as inductance, capacitance and other application of A.C. current. Lecture and laboratory. (Fall, Spring)

132 Injection Molding. 2 hours.
Process variables in both plunger and reciprocating injection molding of thermoplastics and thermosetting type materials will be covered in this class. Illustrated lecture, laboratory and industrial field trips will constitute the principal instructional activity. (Spring)

134 Extrusion and Blow Molding of Plastics. 2 hours.
A study of extrusion variables in the process of producing rods and profiles, sheet, film, pipe and tube will be a major part of the course. The production of blow molded products will be the second part of this course. Illustrated lecture, laboratory and industrial field trips will constitute the principal instructional activity. (Fall)

136 Thermoforming and Fabrication. 2 hours.
Design and process variables in sheet thermoforming and fabricating of stock shapes will be the major units of study. Students will gain these experiences through illustrated lecture, laboratory and industrial field trips. (Spring)

155 Basic Graphic Processes. 3 hours.
A survey course designed to acquaint the student with the basic processes of graphic reproduction and the materials and products allied with the printing industries. Practical work in offset, screen printing, letterpress printing and line photography will be supplemented with lecture-discussion and individually arranged plant tours. (Fall, Spring)

160 Technical Occupations—Orientation and Survey. 3 hours.
General survey of technical occupations: development, functions, skill requirements, training and trends. (Spring)

202 Engineering Drafting. 3 hours.
A basic course designed to develop skills in use of drafting equipment and in lettering, applied geometry, orthographic projection, pictorial drawing, auxiliary views drawing, sectioning, dimensioning and developments. Lecture and laboratory. (Fall, Spring, Summer)

207 General Metals. 3 hours.
This course is designed to develop additional skills in studying the behavior and characteristics of ferrous and non-ferrous metals. Special emphasis is directed to the areas of metal spinning, sheet metal and explosive forming. Plant tours, lecture, laboratory exercises and projects. (Fall, Spring)

213 Electrical Drafting. 3 hours.
Advisor's approval recommended.
This course is designed for students majoring in electrical engineering technology and industrial electrical technology. It includes instruction in the use of drafting equipment, lettering, dimensioning, electrical symbols, and drawing printed circuits, electrical diagrams, graphs and three view drawings. Lecture and laboratory. (Fall, Spring)

214 Advanced Engineering Drafting. 3 hours.
An intermediate drafting course designed to review certain basic drafting principles prior to special emphasis in the areas of specialized equipment, materials, instruments, assembly drawing, detail drawing, inking, pictorial drawing and working drawing. Lecture and laboratory. (Fall, Spring)

220 Descriptive Geometry. 3 hours.
This course is designed to increase understanding and stimulate analytical thinking in arriving at solutions to problems involving points, lines, planes, curved lines, curved surfaces, and intersection and development problems. Special emphasis is directed to auxiliary views, points and lines, plane surfaces, revolution, single curved surfaces, intersection of surfaces and development of surfaces. Lecture and laboratory. (Fall, Spring)

223 Refrigeration Theory. 3 hours.
Prerequisites: Physics 201 and lab 207 and at least one college level mathematics course.
A study of the principles of refrigeration and the components of a refrigeration unit. Fundamentals of refrigeration, tools and materials, refrigeration systems, compressors, motors, circuits, electrical controls and refrigerants are examples of units studied. Lecture and laboratory. (Fall)

230 Introduction to Plastics Processing.
3 hours.
A survey course designed to introduce students to the materials and techniques employed in the processing of thermoplastics. Major units of study will include: Injection Molding, Extrusion, Sheet Thermoforming, Rotational Molding, Blow Molding, and Fabrication techniques. Field trips, lecture and laboratory. (Fall)

232 Plastics Materials and Process Evaluation. 3 hours.
The student will develop an understanding of standard tests used to evaluate plastics materials and will alter process variables in selected processing techniques, to achieve optimum results. Lecture and laboratory activities will be included and field trips to Industrial Laboratories will be taken when appropriate. (Fall)

261 Principles of Vocational-Industrial and Technical Teaching. 2 hours.
Designed to acquaint the student with the historical developments, principles and practices related to teaching vocational-industrial and technical subjects. (Summer)

263 Trade and Technical Occupational Analysis. 2 hours.
Involves the fundamental steps for analyzing trade and technical occupations in order to establish appropriate units of instruction. (Summer)

264 Instructional Materials. 2 hours.
Selection and arrangement of teaching content; preparation of assignment, operation and information sheets, preparation of evaluative instruments. (Summer)

290 Machine and Tool Maintenance. 3 hours.
A general course dealing with machine and tool maintenance practices. Content includes the organization of maintenance programs, record keeping, hand tool maintenance, basic electrical maintenance, bearings, lubrication, drive systems, sharpening techniques, and general trouble shooting of common woodworking and metalworking equipment. Field trips will be utilized as needed. Exercises are required. Lecture, demonstration and laboratory. (On Demand)

300 Industrial Finishing. 3 hours.
A survey of industrial finishing materials, equipment, and processes. Study will include the classification, characteristics and uses of finishing, materials, and equipment. Field trips will be a part of the course content. Lecture, laboratory. (On Demand)

302 Advanced Design. 2 hours.
Prerequisites: Industrial Education 101 and 202.
Course includes: critical analysis of design, development of the process of designing and problem solving techniques in planning and developing product ideas, occupational information as it may relate to the role of the designer, opportunities for the development of sensitivity for research and creativity in the area of designing. Recitation and laboratory. (Fall, Spring)

304 Recreational Crafts I. 3 hours.
A course for individuals interested in learning a variety of commonly accepted and currently popular craft activities. Emphasis is placed on using crafts in recreational settings. Course content includes a study of jewelry making, metal foil work, leather work, papier maché, candle making, nature crafts, scrap crafts and paper crafts. Lecture and laboratory. (Fall, Spring)

305 Recreational Crafts II. 3 hours.
No prerequisites.
A course designed for persons interested in crafts which are primarily wood related. The course involves the study of tools, materials, and processes in the areas of wood carving, wood turning, furniture repair, refinishing, finishing, and decoupage. Lecture, demonstration and laboratory. (On Demand)

306 Automobile Mechanics. 3 hours.
An introductory course involving the study of man's efforts to harness power for work. Study centers around various types of internal combustion engines—their operations, minor servicing and repair procedures. Lecture and laboratory. (Fall, Spring)

307 Process Photography. 3 hours.
Includes preparation of camera copy, line copy photography, halftone photography, making color separations, and offset platemaking. Students explore offset printing and photographic screen printing of halftone images. Lecture and laboratory. (Fall, Spring)

308 Automobile Mechanics. 3 hours.
Prerequisite: Industrial Education 306 or consent of instructor.
This course furthers a student's exposure to automotive performance malfunctions for use in determining proper diagnostic techniques, performing minor or major repairs and/or adjustments. Emphasis is also directed to the organization, operation, and inventory of shop equipment and supplies. Lecture and laboratory. (Spring)

309 Basic Electronics. 3 hours.
Prerequisite: Industrial Education 120.
A course designed to familiarize the student with basic electronic devices such as electron tubes and various semiconductors. Basic circuits including oscillators, amplifiers and power supplies are examined. Lecture and laboratory. (Fall, Spring, Summer or On Demand)

310 Industrial Safety. 3 hours.
A study of industrial safety including topics of accident causation and analysis, common industrial accidents, personal protective equipment, housekeeping procedures, materials handling and storage, machine safety and guarding, and health standards common to industry. Compliance with current State and Federal safety laws and regulations as they relate to industry will also be covered. Illustrated lectures with practical experiences. Field trips utilized when appropriate. (Fall, Spring, Summer)

313 Technical Drafting. 3 hours.
Prerequisites: Industrial Education 202, Industrial Education 214.
An advanced exploratory course designed to accelerate understandings and skills in the fields of specialized drafting, conventional drafting practices in N/C drawings, fabrication drawings, sheet metal, production, jig and fixture drawings. Recitation and laboratory. (Fall or On Demand)

315 Airbrush Rendering. 3 hours.
Basic and professional understanding of airbrush rendering. Development of rendering skills for commercial and industrial subjects. Application of rendering for all areas of airbrush expressions. Airbrush exercises, studies, textures and applications. Lecture and laboratory. (Fall, Spring, Summmer)

316 Technical Illustration. 3 hours.
Converting multiview drawings into axonometrics, obliques and perspective pictorial expression. Principal uses of the ellipse and other templates. Drawing exploded views, rendering pictorials for publication. Recitation and laboratory. (Fall, Spring, Summer)

317 Welding Processes. 3 hours.
Prerequisites: Industrial Education 115 or instructor's approval.
A familiarization course dealing with theory, application of various types of welding processes in manufacturing and economics of various welding processes. Includes study and experience in resistance, arc, oxyacetylene, cutting, GTA(TIG), MIG, brazing, destructive and nondestructive testing, and metallizing processes. Plant tours, lecture, laboratory exercises and projects. (Fall, Spring)

319 Electronic Communications Maintenance. 3 hours.
Prerequisites: Industrial Education 120 and 309.
A course incorporating communications electronics involving AM, FM and TV circuits and related maintenance techniques. (On Demand)

320 The Power and Transportation Industry. 3 hours.
Prerequisite: Six semester hours of industrial education and technology courses.
An overview of the development and utilization of power in terms of energy, energy conversion, transmission, control and applications. Lecture, demonstration, laboratory and industrial field trips. (Spring)

321 The Manufacturing Industry. 3 hours.
Prerequisite: Six semester hours of industrial education and technology courses.
An examination of the management, personnel and production techniques characteristic of manufacturing industries. Lecture, demonstration, laboratory and industrial field trips. (Fall)

322 Industrial Communications Technology. 3 hours.
Prerequisite: Six semester hours of industrial education and technology courses.
A course dealing specifically with the industrial communications areas of drafting, graphic arts and electronics and is designed to show interrelationships between these areas. Lecture, demonstration, laboratory and industrial field trips. (Spring)

323 Domestic Refrigeration. 3 hours.
Prerequisites: Physics 201 and lab 207 and IE 223 Refrigeration Theory.
A study of the design, construction and mechanical principles involved in refrigeration devices commonly found in the home. Trouble-shooting and servicing will be included. Lecture and laboratory. (Spring or On Demand)

325 Applied Electricity. 3 hours.
Prerequisite: Industrial Education 120.
A study of basic theory regarding single and three phase circuits, Ohm's and Watt's Laws, the National Electrical Code, residential and commercial wiring, blueprint reading and estimating and an introduction to electric motors. Lecture and laboratory. (Fall, Spring, Summer or On Demand)

327 Machine Shop. 3 hours.
Prerequisite: Ind. Ed. 115 or equivalent.
This course provides basic machine data and operational experience of the following machine tools: metal cutting lathe, vertical and horizontal milling machine, metal cutting band saw, shaper, surface grinder, optical comparator, electro discharge machine (EDM), point to point numerical control (N/C) machine and digital readout equipment. Students prepare and utilize manufacturing sequence forms prior to machining. Plant tours, lecture and laboratory exercises. (Fall, Spring, Summer)

328 Applied Electronics. 3 hours.
Prerequisites: Industrial Education 120 and Industrial Education 309.
A course designed to view the basic operation of semiconductor devices such as the

SCR, UJT, FET, Triac and applications of electronic communications in industry. (On Demand)

330 Advanced Airbrush Rendering. 3 hours.
Advanced airbrush rendering in the areas of mechanical rendering, display and poster illustrations, photo retouching, non-mechanical, background effects, and special effects. Lecture and laboratory. (Fall, Spring)

334 Reinforced and Laminated Plastics.
3 hours.
Processing reinforced and laminated plastics by hand lay up methods will be the major units of study. Illustrated lecture, laboratory and industrial field trips will constitute the major activities. (Spring, Summer)

335 Principles of Vocational Guidance.
3 hours.
Methods and techniques involved in exploring, selecting, preparing for, entering upon and succeeding in a vocation; designed for vocational teachers and administrators. (Summer)

340 Characteristics and Identification of Wood. 3 hours.
An introduction to the physical and mechanical properties of wood and wood identification. Emphasis will be placed on native wood species of commercial importance. Identification will be studied at both the macro and micro levels. Lecture and laboratory. Field trips may be utilized as a part of the course. (On Demand)

341 Industrial Wood Processing I. 3 hours.
Prerequisite: Industrial Education & Technology 103 or consent of instructor.
An introductory course in the operation of woodworking machines. Students design, plan, and construct a wood product. Study also includes the care and use of spray finishing equipment. Lecture, demonstration and laboratory. (Fall, Spring)

342 Furniture Design and Construction.
3 hours
Prerequisites: Industrial Education 103, 202 and 341 or equivalent.
A study of period and contemporary furniture design and construction. Laboratory activities include designing, drawing and constructing a contemporary or period furniture item. Lecture, laboratory and field trips as needed. (Spring every two years)

351 House Planning and Construction. 3 hours.
This course deals with the problems involved in the design and construction of homes. The types of domestic architecture, building materials, construction specification and costs are studied.Field trips may be used to supplement lecture-discussion and out-of-class sketching and estimating assignments. (Fall, Spring)

357 Advanced Machine Shop. 3 hours.
Prerequisite: Industrial Education 327.
This course provides advanced technology data and on hand experience of the following machine tools: metal cutting lathe; vertical, horizontal and bench milling machine; contour cutting on band saw; shaper; surface grinder; optical comparators as it applies to metrology; electro discharge machine (EDM); point to point numerical control (N/C) machine; tape control lathe and digital readout equipment. Students design projects utilizing knowledge gained in related subjects. Preventive maintenance and machine tool repairs are performed as part of class assignment. Basic fundamentals of non-destructive testing. Plant tours, lecture, laboratory exercises. (Fall, Spring, Summer)

360 Residential Architectural Drafting.
3 hours.
Prerequisite: Industrial Education 202 and 351.
The course requires the preliminary planning and drawing of a complete plan and the preparation of typical building specifications for a wood frame residential house or a CBS home. Architectural graphic skills, building material sources, building technology and acceptable construction practices constitute the scope of the course. Recitation and laboratory. (Fall, Spring)

361 Construction Methods and Materials I.
3 hours.
An examination of the basic tools, techniques and materials used for site and soil analysis, earthmoving, placing footings and foundations, masonry unit construction, light frame construction, sanitary and electrical rough-in, duct and vent work and the finishing of interiors and exteriors. Field trips will supplement lecture discussion and out-of-class assignments. (Fall)

363 Evaluation in Vocational and Technical Education. 3 hours.
Methods of evaluation; the preparation of measuring devices; methods of assessing technical competency; interpretation of standardized test results; statistical analysis of test data and the improvement of instruction. (Summer)

364 Methods in Industrial Education. 3 hours.
The preparation and application of instructional materials, methods, techniques and devices relevant to teaching vocational-industrial and technical subjects. (Spring)

365 Foundations of Industrial, Vocational and Career Education. 3 hours.
The characteristics and purposes of American Public Education with emphasis on industrial, vocational, career, and general education; their relationships and differences; the place of each in preparing people for occupational careers. (Summer)

366 Instructional Media and Curriculum in Industrial, Vocational, and Career Education. 3 hours.
Curriculum review and the selection, development analysis, cataloging, sources, and use of commercial and self-made instruction aids suitable for vocational, industrial and technical education. (Fall)

367 Supervised Work Experience in Industry.
1 to 6 hours.
Advisor approval required.
Supervised employment in industry. Assignments individually arranged by University coordinator and the cooperating industry. Written reports required. (Fall, Spring, Summer)

368 Workshop in Vocational-Industrial and Technical Education. 2 to 6 hours.
Laboratory approach which provides opportunities for experienced educational personnel to concentrate their study on practical problems in vocational-industrial and technical education. (Summer)

370 Motion and Time Analysis. 3 hours.
Prerequisite: Junior classification or approval of instructor.
A study of methods improvements, motion economy, and the development of time standards by direct observation, predetermined time standards, and synthesis. Plant tours, recitation and laboratory. (Fall, Spring)

371 Construction Methods and Materials II.
3 hours.
An extension of I.E. 361 with emphasis on practical applications. This course will include exploration of mass superstructures, structural iron work, modular and prefabricated structures and a review of innovations and future trends. Field trips will supplement lecture-discussion and laboratory experiences. (Spring)

372 Commercial Architectural Floor Planning.
3 hours.
Prerequisite: IE 202, 351, 360 or special permission.
Content includes the preliminary planning and drawing of small commercial buildings, multiple family dwellings, restaurants, retail stores, etc. Preparation of specifications and identification of sources of materials are included. Acceptable design and drafting techniques are emphasized. Lecture and laboratory. (Spring or On Demand)

373 Commercial Architectural Detailing.
3 hours.
Prerequisite: IE 202, 351, 360, 372 or special permission.
Includes the preparation of detail drawings depicting flashings, piping risers, gusset plates etc. The use of building codes and standards is required in making drawings and writing specifications. Lecture and laboratory. (On Demand)

375 Graphic Layout and Reproduction.
3 hours.
Layout and production techniques used in marketing industrial products. Emphasis on various layout composition methods for commercial promotional and printing media. Photo composition and retouching. Lecture and laboratory. (Fall, Spring)

378 Architectural Model Making. 3 hours.
Prerequisite: IE 202, 351, 360 or special permission.
Includes the building of an architectural model and the study of model building materials and techniques, sources of materials and supplies and methods of displaying models. Lecture and laboratory. (On Demand)

380 Independent Study in Industrial Education. 3 hours.
Special permission required prior to enrollment.
This course is designed for the undergraduate student who would like to study about different aspects of technology that may or may not be included in existing formal courses of instruction. Both the theoretical and empirical parts of the investigation will be reported in a formal document. (By Appointment)

387 Industrial Photography. 3 hours.
Requirement: A student must have an adjustable camera, i.e., variable aperture and speeds.
This course will provide basic and in-depth study in the areas of industrial photography; still photography; in-plant photography; field photography; industrial visuals; photoreproduction; special technical applications, and miscellaneous services. (On Demand)

405 Printing. 3 hours.
A course of advanced applications in layout, design and production of printed materials by offset lithography and other

basic processes. Students will engage in the design, layout and production of independent projects using equipment and materials in the graphic reproduction laboratory. Students will submit a log and file of work completed during the semester. (By Appointment)

410 Industrial Arts Problems. 3 hours.
Prerequisite: Senior or graduate standing in Industrial Education, and special permission.
This course provides an opportunity for individual study and/or research relative to problems in industrial education. Prior approval necessary before registering for this course. (Fall, Spring, Summer)

414 Technical Drafting II. 3 hours.
Prerequisite: IE 202, 214, 313 or special permission.
An advanced course to further develop expertise in the drafting of gears and cams, electronic diagrams, topographical maps, piping, graphs and computer drafting. Lecture and laboratory. (On Demand)

429 Electrical Maintenance. 3 hours.
Prerequisite: Industrial Education 120, 309, 328.
This course is an introduction to the use of electrical and electronic test equipment, digital circuits, and applications of electronic and electromechanical motor control devices. (On Demand)

430 Plastic Mold Design and Construction.
3 hours.
Students will be introduced to plastics mold design as it is related to the physical characteristics of plastics, molding techniques, and mold construction methods. Units of study will include: mold design for each of the major processing techniques plaster tooling, machining and wood fabrication. Each student will be expected to complete a minor research project. Lecture and laboratory. (Fall)

439W Workshop in Industrial Education.
1-3 hours.
Special short course on problems or special topics in Industrial Education and Technology. (On Demand)

447 Thermal Metals Processes. 3 hours.
Prerequisite: Industrial Education 115 or approval of instructor.
This course provides experience in pattern-making, tempering foundry sand, melting non-ferrous and Grey iron, special processes such as slush casting, centrifugal casting, investment casting, plaster mold casting and shell molding. Plant tours, lecture, laboratory exercises, and project. (Fall, Spring)

450 Planning Industrial Education Facilities.
2 hours.
Principles and practices underlying the planning and designing of shops and laboratories for vocational-industrial and technical education. (Summer)

452 Industrial Wood Processing II. 3 hours.
An advanced course dealing with the design, planning tooling-up for, and mass production of a complex wood product. Emphasis is placed upon jig and fixture design and the set-up and use of production woodworking machinery. Students are required to participate in a group mass production endeavor. Field trips will be a part of the course content. Lecture, demonstration and laboratory. (Fall)

460 Seminar in Vocational-Industrial and Technical Education. 3 or 4 hours
Individual and group investigations of current problems and issues in the field of Vocational, Industrial and Career Education. Each student will be expected to plan and complete an organized investigation or minor research project and present his findings to the seminar. (Fall)

463 Supervised Student Teaching in Vocational-Industrial and Technical Education. 4, 8 or 10 hours.
Observation, participation and supervised teaching in vocational-industrial and technical education. Includes experiences in lesson planning, classroom management, record keeping, development and use of instructional materials and directed teaching in approved centers. (Fall, Spring)

464 The Organization and Supervision of Vocational-Industrial and Technical Student Teaching. 2 hours.
This course is designed to acquaint student teacher supervisors with the philosophy, theory and practices which are essential in an effective student teaching program. Attention is given to vocational-industrial and technical accreditation and certification standards, personal and professional relationships and evaluation of student teachers. (Summer)

465 Industrial Arts for Elementary Teachers.
3 hours.
A course designed for elementary teachers and those preparing to enter the field of elementary education. The course involves a study of the philosophy, purposes, organization and correlation of industrial arts activities as they apply to the elementary school program. Recitation and laboratory. (Fall, Spring, Summer)

476 Technical Rendering. 3 hours.
Prerequisites: Industrial Education 315 and Industrial Education 316.
Commercial and freehand rendering techniques on technical pictorial drawings and illustrations. Freehand lettering and mechanical lettering, composition and form studies, presentation renderings, and advanced airbrush rendering techniques. Lecture and laboratory. (Fall and Spring)

478 Special Architectural Problems. 3 hours.
Prerequisite: IE 202, 351, 360 or special permission.
A study of innovative approaches to design and drawing of one family dwellings such as A-frames, cantilever, dome, cabins, modular units and small vacation cottages. A research project is required resulting in a written report. (On Demand)

480 Numerical Control Systems. 2 hours.
Prerequisite: Industrial Education 115, Industrial Education 207 or approval of instructor.
Covers origin, history and conditions that warrant the use of numerically controlled machine tools and their impact on present industrial organization. Study includes point to point machining, use of digital readout equipment, writing programs, cutting a tape, setting up milling machine for point to point machining, writing programs for tape control lathe, setting up metal cutting lathe for machining. Plant tours will include the familiarization of 3 axis and 5 axis numerical control (N/C) machining tools. Lecture, laboratory exercises and projects. (Fall, Spring)

485 Color Separation. 3 hours.
Prerequisite: Industrial Education 307 or permission of instructor.
An exploration of current techniques and materials used to separate color from color originals. Masking, correction, scanners, platemaking, and process color reproduction will be reviewed. (On Demand)

490 Instructional Methods and Organization, Industrial Arts Education. 3 hours.
Prerequisite: Senior standing Industrial Education.
A study of selected Industrial Arts curriculum patterns including objectives, methods of presentation, laboratory organization, instructional materials and evaluation. (Fall, Spring)

495 Acoustic Guitar Construction. 4 hours.
The construction of a steel string or classic guitar and related jigs and fixtures, using the Haile method, constitutes the major portion of this course. Appropriate field trips are utilized as part of the course. Lecture and laboratory. (Summer)

497 Non-Destructive Inspection. 2 hours.
Prerequisites: Industrial Education 115 and approval of instructor.
Theory and application of magnetic particles, liquid penetrant, dy-chek, magnaglo, ultrasonic and x-ray testing to machine, casting, welded and formed parts with qualitative analysis and control applications. Lecture and laboratory exercises. (On Demand)

498 Advanced Wood Products Analysis.
3 hours.
Course deals with current topics which have a bearing upon wood products production and is conducted in a seminar fashion. Areas of study include, the analysis of wood properties, wood identification, machining, adhesives, wood preservation and finishing. Field trips will be a part of the course content. (Spring)

GRADUATE COURSES

510 Investigations in Industrial Education.
3 hours.

520 Philosophy of Industrial Education.
3 hours.

524 Organization and Teaching of Industrial Education for the Handicapped and Disadvantaged. 3 hours.

525 Industrial Education Curriculum.
3 hours.

530 Advanced Drafting. 3 hours.

532 Industrial Design. 3 hours.

542 Industrial Electricity and Electronics.
3 hours.

544 Wood Technology. 3 hours.

548 Graphic Arts. 3 hours.

552 Advanced Machine Shop. 3 hours.

556 Power Mechanics. 3 hours.

560 Metal Technology. 3 hours.

564 Problems in Crafts. 3 hours.

568 Ceramics and Plastics. 3 hours.

572 General Shop. 3 hours.

599 Thesis Research and Writing. 6 hours.

599c Maintaining Matriculation. 1 to 6 hours.

DEPARTMENT OF PHYSICAL EDUCATION AND RECREATION

ACADEMIC ATHLETIC BUILDING #2 — L. T. SMITH STADIUM, ROOM 316

Professor Burch E. Oglesby, Head

Professor: J. Jones
Associate Professors: R. Anderson, T. Crews, J. Feix, W. Kummer, B. Langley, S. Laney, A. Little, W. Meadors, J. Oldham
Assistant Professors: J. Carter, C. Crume, C.Daniel, L. Gilbert, F. Griffin, D. Hessel, C. Hughes, W. Powell, J. Richards, R. Rose, W. Sydnor, J. Verner
Instructors: C. Baker, E. Canty, S. Clark, R. Dunn, M. Gulson, W. Hape, P. Herriford, S. Krakoviak, R. Rafferty, M. Thomas, L. Walker

The Department of Physical Education and Recreation has the responsibility for professional preparation of teachers, coaches and leaders in the fields of physical education and recreation and physical education for students attending the University.

Students enrolling in the professional sequences of the department are trained to become teachers of physical education at the elementary, junior and senior high school and college levels; to coach athletic teams and to supervise and direct recreation programs in various public, semi-public and private organizations.

MAJOR IN PHYSICAL EDUCATION

The major in physical education (reference number 751) requires a minimum of 53 semester hours and leads to a Bachelor of Science degree. The major is performance based and requires absolute adherence to the following course sequence:

Freshman Year — 1st Semester: P.E. 116, P.E. 121
Freshman Year — 2nd Semester: P.E. 117, P.E. 122
Sophomore Year — 1st Semester: P.E. 118
Sophomore Year — 2nd Semester: P.E. 301
Summer School between Sophomore and Junior Year: P.E. 300
Junior Year — 1st Semester: P.E. 302, P.E. 303, P.E. 304, P.E. 370
Junior Year — 2nd Semester: P.E. 305, P.E. 354, P.E. 493, P.E. 460
Senior Year — 1st Semester: P.E. 360, P.E. 493, P.E. 470
Senior Year — 2nd Semester: P.E. 392, P.E. 480, P.E. 493

A health minor is recommended for all physical education majors. Biology 131—Anatomy and Physiology and Physics 109—Applied Physics for the health sciences are recommended for physical education majors in meeting the natural sciences general education requirements. Qualifications to continue in the program after the freshman year will be based on program competency achievement (i.e., evaluation of physical fitness, sports skill abilities, skill knowledge, teacher aptitude and personal adjustment).

MAJOR IN RECREATION

The major in recreation (reference number 766) requires a minimum of 30/36 semester hours and leads to a Bachelor of Science degree. Recreation majors must complete the following courses: RECR 200, 300, 302, 306 and 490*. Additional courses to meet the requirements of the major must be approved by the recreation advisor.

AREA OF CONCENTRATION IN RECREATION

The area of concentration in recreation (reference number 589) requires a minimum of 48 semester hours and leads to a Bachelor of Science degree. Students must complete the following courses: RECR 200, 300, 302, 306 and 490*. Additional courses to meet the requirements of the area of concentration must be approved by the recreation advisor.

MINOR IN ATHLETIC COACHING

The minor in athletic coaching (reference number 320) requires a minimum of 18/23 semester hours. Students must complete the following courses: PHY ED 290, 291, 392, 440 and 493. In addition to the Core Courses, students shall select seven (7) to nine (9) hours from the following Coaching Courses: PHY ED 331, 332, 339, 340, 341, 342, 343, 344, 345, 348 and 349.

The minor is designed to equip those persons who want to enter a teaching and coaching career, but do not desire to major in physical education, with the essentials of sports knowledge and skill which every coach should possess.

MINOR IN ATHLETIC TRAINING

The minor in athletic training (reference number 323) requires a minimum of 29 semester hours. Students must complete the following courses: HL SFT 100, BIOL 131, HE FL 167, HL SFT 171, PSY 320, PHY ED 390, 391, 392, 491 and 492. Students completing a number of these courses in their major course of study will arrange for appropriate course substitutions with their advisor in athletic training.

The completion of a minor in athletic training does not automatically qualify a student as a certified athletic trainer. Students desiring National Athletic Trainers Association certification as certified Athletic Trainers must have held membership in the NATA for one year prior to making application to take the NATA National Certification Test and be recommended by the University Athletic Team Physician and the certified Athletic Trainer who co-ordinates the athletic training curriculum.

Athletic training is an auxiliary function of medicine. The minor in athletic training prepares the student to work directly under the supervision of a physician in the prevention and care of injuries associated with competitive athletics.

MINOR IN PHYSICAL EDUCATION

The minor in physical education (reference number 432) requires a minimum of 25 semester hours. This minor is not a certifiable teaching field in Kentucky. For requirements, contact the head of the Department of Physical Education.

MINOR IN RECREATION

The minor in recreation (reference number 444) requires a minimum of 21 semester hours. Students must select fifteen hours from the following recreation courses: 200, 300, 302, 306 and 490.* To complete the 21 hours for the minor, six additional hours are to be selected from such fields as: Art, English, Theatre, Speech, Industrial Education, Agriculture, Physical Education, etc., with the approval of the recreation advisor.

Curriculum Programming for Individual Needs and Interests. The flexibility of the recreation curriculum through the inter-departmental approach enables the advisor to largely adapt a program to meet specific interests and abilities of the individual.

Twelve basic areas of employment and service are open to the recreation graduate. These include: (1) Municipal and Metropolitan Government, (2) County Recreation and Special Districts, (3) Federal and State Government, (4) Recreation Business Enterprises, (5) Recreation in Industry, (6) Recreation in Armed Forces, (7) Recreation in Institutions, (8) Church Recreation, (9) Camping, (10) Youth-Serving Agencies, (11) Recreation Teaching and Campus Recreation and (12) Recreation Research.

As soon as the interest and abilities of the student begin to focus on a particular area, the advisor works closely with the student to carefully select courses. Placement of the student for practical experience in the selected field through the recreation intern program gives valuable knowledge and understanding.

GRADUATE DEGREE PROGRAMS

A graduate major and minor in physical education and recreation is offered for students desiring additional training in physical education and recreation. See the Graduate College Bulletin for further details.

*Before students take 490 they should have (1) senior standing; (2) a grade point average of 2.0 for in-state placement and 2.5 for out-of-state placement; (3) verification of the completion of paid or voluntary work experience in recreation and parks totaling 150 clock hours for a Kentucky internship and 200 clock hours for an out-of-state placement. These hours must be accumulated within the 12 months prior to the semester in which the student will complete the internship. Recreation minors must have 100 clock hours of work; (4) successfully completed (grade of "C" or better) 2/3 of the recreation courses to be taken in the program and (5) completed and filed the undergraduate degree program.

COURSES OF INSTRUCTION

GENERAL EDUCATION PHYSICAL EDUCATION

100 Fundamentals of Physical Activity. 3 hours.
A study of the basic knowledges, understandings and values of physical activity. Laboratory experiences are required. (Every Semester)

101 First Activity Course. 1 hour.

102 Second Activity Course. 1 hour.

103 Third Activity Course. 1 hour.

104 Fourth Activity Course. 1 hour.
Activity may be selected from aquatics, archery, badminton, bowling, dance, field hockey, golf, gymnastics, handball, karate, physical conditioning, seasonal sports, soccer, softball, tennis, volleyball, weight training or wrestling, etc.

PROFESSIONAL PHYSICAL EDUCATION

116 Human Movement I. 2 hours.
An introduction to basic mechanical principles of locomotor and nonlocomotor movement and laboratory experiences that enable the student to develop competence in the utilization of locomotion and nonlocomotion movement patterns. (Fall)

117 Human Movement II. 2 hours.
Prerequisites: P.E. Orientation I and II and Human Movement I.
An introduction to the basic mechanical principles of throwing and catching skills and laboratory experiences that enable the student to develop competence in these skills. (Fall)

118 Human Movement III. 2 hours.
Prerequisites: P.E. Orientation I and II and Human Movement I and II.
An introduction to basic mechanical principles of striking and kicking skills and laboratory experiences that enable the student to develop competence in these skills. (Fall)

121 Physical Education Orientation I. 1 hour.
Analysis of physical education as a professional career option including an examination of the student's qualifications for entry into the physical education program. (Fall)

122 Physical Education Orientation II. 2 hours.
Prerequisite: P.E. Orientation I.
An advanced analysis of physical education as a profession in conjunction with a variety of supervised field experiences. (Spring)

218 Educational Gymnastics for Elementary School Children. 1 hour.
This is an activity course designed to aid the teacher of elementary school children in the selection and presentation of gymnastic activities. The course will apply toward an endorsement in elementary school physical education for PHY ED majors.

219 Interpretive Dance Activities for Elementary School P.E. Teachers. 1 hour.
This is an activity course designed to aid the teacher of elementary school children in selection and presentation of interpretive dance activities for elementary school age children. The course also includes teaching experiences in the local elementary schools. The course will apply toward an endorsement in elementary school physical education for PHY ED Majors.

224A Rhythmical Activities. 1 hour.
(Every Semester)

224B Advanced Rhythmical Activities. 1 hour.
Prerequisite: PHY ED 224A. (Every Semester)

224C Advanced Folk Dance. 1 hour.
Prerequisites: PHY ED 224A, 224B or permission.

250 Conduct of Intramural Sports. 2 hours.
A critical analysis of intramural sports programs from the standpoint of objectives, age level and contribution to the general welfare of the participating students. Problems of policy and administration of programs on the elementary, secondary and college levels are studied. (Every Semester)

290 Scientific Principles of Coaching. 3 hours.
A study of the psychological and kinesiological aspects of sport and coaching.

291 Scientific Basis of Conditioning. 3 hours.
A study of the physiological basis for conditioning and training athletes.

300 Leisure Time Outdoor Pursuits. 3 hours.
Prerequisite: Junior standing.
A study of outdoor activity skills and techniques for assessing community outdoor education resources. (Once each year)

301 Applied Human Movement I. 2 hours.
Prerequisites: P.E. Orientation I and II and Human Movement I, II and III.
A study of selected team sports and supervised field experience in teaching them. (Spring)

302 Applied Human Movement II. 2 hours.
Prerequisites: P.E. Orientation I and II and

Human Movement I, II and III.
Instructional activities and experiences to assist the teacher of elementary school children in the selection and presentation of physical activities which are appropriate for this age group; this includes supervised field experiences in the local elementary schools. (Fall)

303 Applied Human Movement III. 2 hours.
Prerequisites: P.E. Orientation I and II and Human Movement I, II and III.
An introduction of folk/square dance, and gymnastic knowledges and techniques, including supervised field experiences that enable the student to develop instructional skills necessary for teaching these activities in elementary and secondary school. (Fall)

304 Applied Human Movement IV. 2 hours.
Prerequisites: P.E. Orientation I and II and Human Movement I, II and III.
An introduction to track/field and weight training knowledge and techniques including supervised field experiences that enable the student to develop instructional skills necessary for teaching these activities in elementary and secondary school. (Fall)

305 Applied Human Movement V. 2 hours.
Prerequisites: P.E. Orientation I and IIand Human Movement I, II and III.
An introduction to the rules, skills and playing strategies of selected racquet sports, including supervised field experiences that enable the student to develop instructional skills necessary for teaching these activities in elementary and secondary schools. (Spring)

325A Teaching Modern Dance I. 1 hour.

325B Teaching Modern Dance II. 1 hour.
Prerequisite: 325A.

330 History and Principles of Physical Education. 2 hours.
A study of the history of Physical Education from ancient to modern times. The psychological and sociological principles of Physical Education are studied and analyzed. (Every Semester)

332 Coaching of Field Hockey. 3 hours.
Conditioning and fundamentals of offensive and defensive play. Rules, regulations and scheduling in accordance with AIAW, USFHA and KYHSAA.

333 Coaching of Volleyball. 2 hours.
A study of the fundamentals of coaching offensive and defensive women's volleyball.

339 Coaching of Gymnastics. 2 hours.
A study of the methods and techniques used in coaching men's and women's gymnastics.

340 Football Coaching. 3 hours.
Prerequisite: Junior standing.
Fundamentals of offensive and defensive play, psychology of coaching, schedule making, rules and problems in training and conditioning in football. (Every Semester)

341 Basketball Coaching. 3 hours.
Prerequisite: Junior standing.
Fundamentals of offensive and defensive play, psychology of coaching, schedule making, rules and problems in training and conditioning in basketball. (Every Semester)

342 Track and Field Coaching. 3 hours.
Prerequisite: Junior standing.
Fundamentals of coaching, schedule making, rules and problems in training and conditioning in track and field. (Every Semester)

343 Baseball Coaching. 2 hours.
Prerequisite: Junior standing.
Fundamentals of coaching, schedule making, rules and problems in training and conditioning in baseball. (Every Semester)

344 Coaching of Swimming. 2 hours.
Prerequisite: Junior standing and ability to swim. A study of the mechanical principles involved in swimming, with emphasis upon the mechanics, fundamentals and techniques of teaching and coaching the competitive swimming strokes. Students are required to participate in laboratory experiences. (Fall)

345 Coaching of Golf and Tennis. 2 hours.
A study of competitive techniques and strategy in tennis and golf. Attention is also given to rules, pairing and scheduling in accordance with state and national governing bodies.

347 Sports Officiating. 3 hours.
Analysis of rules and officiating techniques for sports, with an emphasis on football, volleyball and basketball. Course includes philosophy, minimum standards, school relationships and principles of crowd control in public school and college officiating. Laboratory experiences in officiating are required in the intramural sports program. (Every Semester)

348 Coaching of Soccer. 2 hours.
A study of the techniques of individual and dual team play with an emphasis on principles of soccer skill acquisition and building systems of play.

349 Coaching of Wrestling. 2 hours.
A study of rules, techniques, conditioning and officiating involved in the teaching and coaching of competitive wrestling at the interscholastic level.

354 Physical Education for Elementary Schools. 3 hours.
Designed especially for classroom teacher; materials and techniques for the physical education program for elementary schools. (Every Semester)

355 Laboratory Procedures in Physical Education and Athletics. 2 hours.
A study of specific problems in the administration of physical education, recreation and athletics. (Every Semester)

360 Methods and Materials in Adaptive Physical Education. 3 hours.
Prerequisite: Junior standing.
Study and field experience in the adaptation of the principles and practices of physical education programs for the teaching of handicapped children. (Fall)

370 Scientific Foundations of Physical Education. 6 hours.
Prerequisites: Biology 131, Human Movement I, II and III.
An introduction to the principles of exercise physiology, biomechanics and motor areas necessary for curriculum development, implementation and evaluation. Includes laboratory experiences. (Fall)

390 Physiology of Exercise. 3 hours.
Prerequisite: BIOL 131.
An examination of physiological parameters involved in various forms of physical exercise, with emphasis on cardio-respiratory measures. A practical examination of physiological principles related to athletics and other organized exercise programs. Lab included. (Every Semester)

391 Analysis of Human Motor Performance. 3 hours.
Prerequisite: PHY ED 390.
An examination of the principles underlying human motion. Emphasis is placed on (1) developing the ability to analyze human motion and (2) learning to select appropriate exercises and drills to improve human motor performance. (Every Semester)

392 Athletic Training. 3 hours.
An analysis of current principles and practices in the conditioning of athletes. Care and treatment of athletic injuries also emphasized. Lab included. (Every Semester)

430 Physical Education Curriculum in Elementary School. 3 hours.
Prerequisites: PHY ED 218, 219, 220, 224A, 354-M.
The purpose of this course is to familiarize the student with the P.E. curriculum in the elementary school.

440 Organization and Administration of Interscholastic Athletics. 2 hours.
A study of principles and practices for planning and implementing athletic programs.

450 Program Planning in Physical Education. 3 hours.
Prerequisite: PHY ED 330.
For majors and minors in physical education. Emphasis on proper selection of a sound physical education program in elementary and secondary schools. (Every Semester)

451 Problems in Physical Education. 3 hours.
An analysis of common problems in physical education with emphasis on applications in practical experience. (On Demand)

454 Problems and Trends in Elementary Physical Education. 3 hours.
An investigation of the current problems and trends in elementary school physical education.

455 Administration of Physical Education and Athletics. 2 hours.
Organization and administration of facilities and supplies in school program of physical education. Management of athletic, intramural and recreational programs. (Every Semester)

456 Advanced Studies in Physical Education and Athletics. 3 hours.
Specific and detailed analysis of practical problem areas in Physical Education and Athletics. Designed specifically for field experiences. Enrollment restricted to teachers in the field and to honor undergraduate students. (On Demand)

460 Foundations of Physical Education I. 5 hours.
Prerequisite: Junior standing.
An introduction to the principles of curriculum construction, administrative organizations and programmatic evaluation of elementary school physical education programs. (Spring)

470 Physical Education Foundations II. 5 hours.
Prerequisites: Senior standing with all major curricular requirements completed with the exception of athletic training, coaching theory, coaching practicum and student teaching.
An introduction to the principles of curriculum construction, administrative organization and programmatic evaluation of secondary school physical education programs.

480 Athletic Administration and Coaching. 3 hours.
Prerequisite: Senior standing.
An introduction to the basic administrative philosophies, procedures, problems an trends in athletic administration and coaching. (Spring)

490 Evaluation in Physical Education. 2 hours.
Prerequisite: Education 340.
A survey of the field of testing in physical education, including a review of the literature on testing, scope of testing and its value. Practical work in the organization and administration of tests is included. (Every Semester)

491 Physical Diagnosis and Corrective Physical Education. 3 hours.
Recognition of abnormalities; exercise for correction. (Spring, Every Other Year)

492 Advanced Athletic Training. 3 hours.
A concentrated study and application of various techniques needed in the prevention and care of athletic injuries. This includes recognition, prevention, treatment, reconditioning and rehabilitation. (Spring, Every Other Year)

493 Practicum in Coaching. 1-3 hours.
Supervised experience as an assistant coach in an interscholastic athletic program.

RECREATION

200 Introduction to Recreation. 3 hours.
To acquaint the student with the nature and history of leisure, play and recreation; to provide insight into the public, private, commercial and other aspects of recreation; to indicate the employment possibilities in each recreation sector. (Fall and/or Spring as needed)

230 Outdoor Recreation Activities. 3 hours.
To acquaint the student with basic outdoor recreation activities, i.e., climbing techniques, spelunking, scuba. A variety of outdoor experiences conducted in a laboratory setting will be provided to reinforce class lectures. Values of outdoor experiences will be emphasized throughout the course. This course is open to all students and especially recommended for all recreation majors and minors and all physical education majors and minors. (Fall and/or Spring or as needed)

300 Introduction to Community Recreation. 3 hours.
Principles of community recreation and administering community recreation; recreation delivery systems and their purposes, organization and relationship to each other, demographic populations served. (Fall and/or Spring or as needed)

302 Recreation Leadership. 3 hours.
The role of leaders in relation to objectives, organization, leadership skills, and procedures as related to recreation, park and leisure oriented settings. (Fall and/or Spring or as needed)

306 Program Planning for Recreation Professionals. 3 hours.
To acquaint the student with various areas of recreation, to provide insight into the planning and scheduling of these content areas into well-balanced recreation programs and to help the student explore the future trends in recreation program planning. (Fall and/or Spring or as needed)

310 Recreation for the Disadvantaged. 3 hours.
Prerequisites: RECR 300, 306, or instructor's permission.
To acquaint the student with the nature and background of the wants and needs of the disadvantaged; to provide insight into understanding these populations in relationship to goals, values, family patterns, leisure viewpoints, etc. The content of the course will provide a rationale for the importance of recreation as a means of meeting the needs of low income groups and will examine alternative programs to provide recreation for disadvantaged populations. (Fall and/or Spring or as needed)

311 Recreation for the Aged. 3 hours.
Prerequisites: RECR 300, 306 and/or instructor's permission.
To acquaint the student with the nature and background of the wants and needs of the aged; to provide insight into the physical, mental, social and emotional problems of the aged. To indicate to the student the important role recreation plays in the lives of the aged and to explore future trends of recreation in these areas. (Fall and/or Spring or as needed)

331 Introduction to Outdoor Education. 3 hours.
A study of the concepts and fundamentals of teaching in the out-of-doors. An emphasis is placed on outdoor education experiences. (Fall and/or Spring or as needed)

383 Social Recreation. 3 hours.
Materials and techniques for planning, conducting and evaluating events for groups of various sizes and ages in different social situations. (Fall and/or Spring or as needed)

386 Elements of Church Recreation. 3 hours.
To acquaint the student with aspects of recreation as they relate to the recreation ministry of the church. Emphasis will be placed on recreation delivery systems, schedules, interest and talent surveys, organizations of the church recreation committee, etc. (Fall and/or Spring or as needed)

410 Therapeutic Recreation. 3 hours.
A study of the principles, trends and programs of therapeutic recreation, with exposure and considerations of selected disabilities. (Fall and/or Spring or as needed)

412 Adaptive Activities and Facilities for Recreation. 3 hours.
Prerequisites: RECR 306, 410 and/or instructor's permission.
To make the student aware of various methods of adapting recreational programs, activities and facilities for the handicapped. (Fall and/or Spring or as needed)

432 Principles of Outdoor Recreation. 3 hours.
Prerequisites: RECR 200, 300 and/or instructor's permission.
Values and extent of outdoor recreation. An overall view of outdoor recreation philosophy based on legislation, geographic factors, land use, standards, agencies and economics. (Fall and/or Spring or as needed)

433 Camp Administration. 3 hours.
Status, purpose and administration of organized camping. Topics include history and trends, selection and training of staff and health and safety considerations, etc. (Fall and/or Spring or as needed)

434 Development of Nature Oriented Areas and Facilities. 3 hours.
A study of nature trail design and preparation, live and inanimate exhibit design and preparation, resource inventory, building, exhibit material purchase, vandalism and other problems related to the development of nature oriented areas and facilities. (Fall and/or Spring or as needed)

435 Techniques in Outdoor Education. 3 hours.
Prerequisites: RECR 331 and/or instructor's permission.
A study of the importance of such elements as field trips, nature crafts, audio-visual aids and interpretive materials and programs in the development of outdoor education as a recreation activity. (Fall and/or Spring or as needed)

470 Administration of Municipal Recreation. 3 hours.
Prerequisites: RECR 300 and/or instructor's permission.
To acquaint the student with various aspects of recreation as it relates to the municipal setting. Areas of concern will include personnel, finance, areas and facilities, long-range planning, maintenance, and other selected topics, legislation and vandalism. (Fall and/or Spring or as needed)

471 Community Centers and Playgrounds. 3 hours.
Various aspects of playground and community center operation. Essential elements of scheduling, problems relating to operation and planning community centers and playground facilities of all types. (Fall and/or Spring or as needed)

480 Recreation Management. 3 hours.
Prerequisites: RECR 200, 300, 302 and 306.
A practical orientation to a variety of recreation and park facilities including management and operational responsibilities. Includes management, personnel, program planning, design and standards. (Fall and/or Spring or as needed)

481 Recreation Seminar. 3 hours.
Prerequisites: Senior standing and instructor's permission.
To introduce the student to current problems, "trends" and issues in the area of leisure services. (Fall and/or Spring or as needed)

482 Recreation Workshop. 1 to 3 hours.
Prerequisites: Senior standing and/or instructor's permission.
A course designed to study a skill in depth as it relates to the recreation profession. Course will deal with certifiable areas either from national organizations or a university curriculum certificate. (Fall and/or Spring or as needed)

490 Internship in Recreation. 1 to 8 hours.
Experience in recreation planning, leadership, supervision and program evaluation through work in recreation, park and other leisure oriented settings. This in-service experience is supervised and controlled by University faculty members and personnel from area recreation agencies. The eight hours professional field experience is required for the recreation major and/or area of concentration student. (Fall and/or Spring or as needed)

DEPARTMENT OF PSYCHOLOGY

COLLEGE OF EDUCATION BUILDING, ROOM 276

Professor John O'Connor, Head

Professors: J. Cangemi, L. Clark, J. Craig, W. Cunningham, E. Dotson, A. Laird, C. Martray, L. Metze, R. Robe, R. Simpson
Associate Professors: P. Duff, D. Grice, B. Howton, C. Layne, L. Layne, S. McFarland, R. Mendel, R. Miller, E. Owen, R. Poe, D. Roenker
Assistant Professors: L. Alexander, N. Cohen, C. Eison, S. Fisicaro, L. Hanser, W. Pfohl
Undergraduate Advisor: S. McFarland

The Psychology Department offers courses, programs and research opportunities which contribute to the professional and pre-professional training of psychology students and at the same time serves other departments where professional training requires skill in and knowledge of psychology.

Graduate training can prepare psychologists for teaching careers in colleges or for careers in general, educational, experimental, industrial, clinical or school psychology. A master's degree is usually the minimum level of training for teaching positions in higher education or certification as a practicing psychologist.

MAJOR IN PSYCHOLOGY

The major in psychology (reference number 760) requires a minimum of 24/30 semester hours and leads to a Bachelor of Arts degree. Required courses are: Psychology 100, 201-210, 400, and one course from each of the following groups:

Group A Psychology 199, 321, 422, 423
Group B Psychology 260, 370, 450, 460
Group C Psychology 250, 440, 443
Group D Psychology 380, 410, 411, 412

The remainder of the program should consist of electives in Psychology. At least half of the program must be in upper division courses (number 300 or above).

A certifiable major must include Psychology 100, 199, 201-210, 400, 410, and 450 with electives sufficient to meet total hours required for certification.

AREA OF CONCENTRATION IN PSYCHOBIOLOGY

The area of concentration in psychobiology (reference number 590) requires a minimum of 54 semester hours and leads to a Bachelor of Science degree. For details about the program refer to the Department of Biology.

MINOR IN PSYCHOLOGY

The minor in psychology (reference number 438) requires a minimum of 18 semester hours. The minor program is designed by the student with the approval of the departmental advisor. At least nine hours of the course work must be in upper division courses (numbered 300 or above). The minimum minor does not meet teacher certification requirements, but may be taken as a non-certifiable minor by a student who has a certifiable major in some other area.

A 21 semester hour minor is certifiable. Requirements include: Psychology 100, 199, 201-210, 400, 410 and 450 with electives sufficient to meet total hours required for certification.

GRADUATE DEGREE PROGRAMS

For students who wish to pursue professional training beyond the undergraduate level a Master of Arts Degree is offered. The following specializations are available: General Psychology, Industrial Psychology, Experimental Psychology, Clinical Psychology, School Psychology, School Psychometrist Certification.

Specific information on each of the above programs may be obtained by contacting the Psychology Department or by consulting the Graduate College Bulletin. Some financial support is available for outstanding graduate students.

COURSES OF INSTRUCTION

In the courses listed in this program, appropriate off-campus laboratory experiences may be required. Such off-campus experiences must be under the direction and supervision of appropriate University faculty and executed within University policy.

100 Introduction to Psychology. 3 hours.
An introductory course dealing with principles of behavior, scientific methods of psychology, measurement, learning, perception, motivation, development, personality, abnormal behavior, social behavior, intelligence and other topics. (Fall, Spring, Summer)

199 Introduction to Developmental Psychology. 3 hours.
A general course in developmental psychology covering the entire life span. Included is a description of growth stages, theories of development and research methods in development. (Fall, Spring, Summer)

201 Statistics in Psychology. 3 hours.
Prerequisites: Psychology 100 and MATH 109.
Normally taught as part of a block of two courses with 210. See description below.

210 Experimental Psychology. 3 hours.
Prerequisite: Psychology 200 and 3 hours of college math or permission.
This two course block is a fused presentation of statistics and experimental methodology for the psychologist. It includes methods of organizing, describing and analyzing psychological data. Selected experiments from the main areas of the field are carried out by students in the psychological laboratory. (Fall, Spring)

250 Personality Adjustment and Mental Hygiene. 3 hours.
A study of the development of the normal personality. This will include a study of the causes and effects of satisfactory adjustment, metal hygiene and the development of personality problems. (Fall, Spring, Summer)

260 Psychology of Social Behavior. 3 hours.
A general introduction to social psychology for majors and non-majors in psychology. Emphasis is given to the psychological components of common social behaviors, including the psychological aspects of contemporary social problems. (Fall, Spring, Summer)

320 Human Growth and Development. 3 hours.
Prerequisite: Psychology 100.
A required educational psychology course for the teacher-in-training/teacher certification. This course aims at the development of specific skills in the application of methods of psychological inquiry and interpretation of classroom interaction within a framework of psychological theory. From time to time, field trips within the University Service area are required as a part of the course. This course may not be used as an elective course in a psychology major or minor program. (Fall, Spring, Summer)

321 Child Psychology. 3 hours.
Prerequisite: Psychology 100.
A study of the development of behavior in infancy and childhood, including a survey of the factors which influence various kinds of behavior. (Fall, Spring, Summer)

361 Psychological Tests and Measurements. 3 hours.
Prerequisite: Psychology 100.
The consideration of methodological, theoretical and ethical problems involved in test construction and use. Topics which are covered include: reliability, validity, predictive efficiency, structure of human abilities, achievement tests and projective techniques. (Fall, Spring)

370 Industrial Psychology. 3 hours.
Prerequisite: Psychology 100.
The application of psychological principles and research techniques to industrial and personnel problems, including selection, efficiency, management models and organizational behavior. (Fall, Spring, Summer)

371 Sales Psychology. 3 hours.
Topics such as salesmanship, sales motivation and advertising techniques will be included. Class projects in salesmanship and sales are undertaken. This course serves as a free elective only and does not count as a required or elective course in a major or minor program under any curriculum unless specific approval is obtained from major advisor. (Fall, Summer)

380 Physiological Psychology. 3 hours.
Prerequisites: Psychology 201, 210 and three hours in biology or permission.
This is a study of the physiological mechanisms underlying behavior. Specific areas of emphasis will include current research on neurological, biochemical and sensory mechanisms as they influence behavior. (Fall, Spring)

390 Community Placement Experience in Psychology. 3 hours.
Prerequisites: Junior or Senior with twelve hours in Psychology, and approval of the department. Particular courses will be designated as prerequisites or corequisites for particular community placement experiences.
Practical work experience in a supervised, psychology-related work setting with a cooperating psychological or human services agency, private business or industry. (Fall, Spring, Summer).

400 History and Systems of Psychology. 3 hours.
Prerequisite: Nine hours in psychology.
This course reviews the main historical systems of psychology: the introspectionist, functionalist, purposive, psychoanalytic, behaviorist, Gestalt, existentialistic and humanistic psychologist. The purpose is to acquaint the student with recent history of psychology and to help him identify important systematic trends in contemporary writings in psychology and their underlying assumptions. This is a required course for all majors and highly recommended for minors. (Fall, Spring, Summer)

410 Psychology of Learning. 3 hours.
Prerequisites: Psychology 201 and 210 or permission.
Facts and principles of human and animal learning, especially as these have been treated in theories attempting to provide a general framework for understanding what learning is and how it takes place. (Fall, Spring, Summer)

411 Psychology of Sensation and Perception. 3 hours.
Prerequisites: Psychology 201 and 210 or permission.
This course provides a brief coverage of the basic sensory mechanisms involved in taste, smell, hearing and sight. However, primary emphasis will be placed on auditory and visual perception. Topics which are covered include speech perception, visual illusions, color vision, the perception of form, shape, movement, time and space, perceptual-motor coordination and the development of perception. (Fall)

412 Psychology of Motivation and Emotion. 3 hours.
Prerequisites: Psychology 201, 210 or 410 or permission.
A study of the ways in which needs, desires and incentives influence behavior. Includes a review and critical analysis of research on motivational processes in human and animal behavior and the development of motivation and emotions. (Fall)

421 Psychology of Early Adolescence. 3 hours.
Prerequisites: Psychology 100, 320.
A course for students planning to meet certification requirements in junior high schools. A review of developmental theories, research and literature relating to the early adolescent. This course may not be used as an elective in a major or minor program in psychology. (First Bi-Term, Spring)

422 Adolescent Psychology. 3 hours.
Prerequisite: Psychology 100.
An introduction to behavior and development from early adolescence to adulthood. The primary emphasis of this course will be a critical review of research and literature in the field of adolescent psychology. (Fall, Spring, Summer)

423 Psychology of Adult Life and Aging. 3 hours.
Prerequisite: Psychology 100.
The course begins with early adulthood and continues through mid-life and old age. Both descriptive and theoretical, the course emphasizes contemporary psychological theories and literature, methodological issues, and the interactions of psychological, biological, social, and environmental factors in adulthood and aging. (Spring, Summer, Fall).

432 Psychology of the Gifted and Creative. 3 hours.
Prerequisite: Psychology 100.
The course covers identification of gifted children and adults with an emphasis upon the development of educational programs which maximize the development of giftedness. Included will be a critical review of research and literature in the areas of giftedness and creativity. (Fall, Spring, Summer)

440 Abnormal Psychology. 3 hours.
Prerequisites: Six hours in psychology.
An introductory course in the field of abnormal psychology with emphasis upon forms of abnormal behavior, etiology, developmental course, interpretations, behavioral manifestation treatment programs. (Fall, Spring, Summer)

441 Psychological Aspects of Alcoholism. 3 hours.
Prerequisites: Psychology 440 and permission of instructor.
An intensive study of theories and research regarding alcoholism: emphasis on application of psychological theories to the treatment of alcoholism and on psychological research regarding alcoholism. (Spring)

443 Behavior Modification. 3 hours.
Prerequisite: Psychology 410 or enrollment in Special Education sequence.
A theoretical and applied understanding of behavior psychology (Behavior Modification). Both theory and application of techniques for modifying behavior in clinics, hospitals, child rearing and education will be covered. Cross-listed with Special Education 443. (Fall, Spring, Summer)

450 Introduction to Personality Theory. 3 hours.
Prerequisites: Nine hours of psychology or permission.
An overview of the major theoretical approaches to the study of personality. This will include theorists of historical note as well as contemporary theorists. The course will serve as a survey of major names, avenues of analysis and concepts in the field of personality. (Fall, Spring, Summer)

460 Method and Research in Social Psychology. 3 hours.
Prerequisite: Psychology 200, 201-210 or permission.
An intensive study of various research methods used in social psychology and an examination of several topics of current research interest. Emphasis is given both to teaching useable research skills and to preparing students for graduate training. Opportunity is provided for planning and conduction of original research. (Fall, Spring)

490 Readings or Special Problems in Psychology. 1 to 3 hours.
Prerequisite: Permission only.
Advanced students will identify and conduct research and/or reading concerning problems in Psychology under the direction of faculty members. (On Demand)

499 Senior Seminar in Psychology. 3 hours.
Prerequisite: 12 hours in psychology and senior level classification.
A discussion course in which major concepts and issues in psychology are considered. Directed reading, guest lectures, field trips, and/or oral reports by students are utilized.

DEPARTMENT OF TEACHER EDUCATION

COLLEGE OF EDUCATION BUILDING, ROOM 104

Professor C. Englebright, Head

Professors: K. Brenner, G. Crumb, D. Geeslin, J. Gibbs, H. Hardin, J. Hicks, J. Johnson, J. Koper, A. Laman, J. McGuire, R. Melville, A. Munson, W. Nolan, R. Pankratz, R. Roberts, J. Scarborough, R. Stevenson, D. Watts
Associate Professors: J. Becker, J. Carpenter, C. Crooks, G. Dillingham, E. Hanes, R. Hicks, M. Nolan, R. Otto, R. Panchyshyn, J. Pollock, E. Rich, D. Ritter, H. Simmons, J. Vokurka
Assistant Professors: D. Broach, M. Crisp, J. Dickson, B. Enright, C. Houk, V. Mutchler, J. Park W. Rigg, J. Roberts, S. Taylor, C. Wolff, J. Zamkoff
Instructor: M. Roit

The Department of Teacher Education includes the program areas of Elementary and Early Childhood Education, Exceptional Child Education, Reading Education, and Secondary and Middle School Education. Programs within the department are designed to meet the university standards for the Bachelor of Science Degree and the Kentucky standards for the designated teaching certificate. All programs are accredited by the Kentucky Department of Education, the Southern Association of Colleges and Schools and the National Council for Accreditation of Teacher Education.

GENERAL REQUIREMENTS

Formal application for admission to Teacher Education must be made in the second semester sophomore year in all programs except Secondary Education, which requires completion of Sec. Ed. 370 before applications are accepted. Formal application for student teaching must be made a full semester prior to the semester the student teaching experience is planned.

A grade point average of 2.25 must be maintained in the overall program and also in each of the professional preparation, area of concentration, major and minor components of the program in order for a student to qualify for admission to Teacher Education and to the student teaching experience.

GRADUATE DEGREE PROGRAMS

The Department of Teacher Education offers programs leading to the Master of Arts in Education Degree and the Kentucky Standard Elementary, Standard Secondary, Standard Junior High/Middle School, and Standard Exceptional Children-Learning and Behavior Disorders teaching certificates and also a program leading to endorsement as Reading Specialist.

The department offers the Education Specialist Degree (Ed.S.) as well as programs leading to Rank I classification for all teachers.

For detailed information regarding graduate programs refer to the Graduate Bulletin.

ELEMENTARY EDUCATION AREA OF CONCENTRATION

The Elementary Education program (reference number 527) requires a minimum of 54 semester hours of general education, 19 semester hours of professional education and 46 hours in the area of concentration. The program leads to the Bachelor of Science degree and the Kentucky Provisional Elementary certificate.

Courses comprising the professional education component are: El. Ed. 100, 340e, 401, 490e, and Psyc. 320. Courses comprising the area of concentration component are: Math 211, 212, Music 110, 211, L.S. 288, H.E.F.L. 300, P.E. 354, Art 310, Eng. 302, 319, El. Ed. 305, 307, 320, 406, and 420/421.

COURSES OF INSTRUCTION

In the professional education courses listed in this program, appropriate off-campus laboratory experiences may be required. Such off-campus experiences must be entered into under the direction and supervision of appropriate University personnel and executed within the policy set forth by the University. University policy applies to the students who are at or in the laboratory situations.

100A Orientation to Elementary Education.
1 hour.
A course designed for individuals considering a career in elementary education. This course provides an overview of the elementary teacher education program and the elementary teaching profession.

100 Introduction to Elementary Education.
3 hours.
A survey of the roles of the elementary school, child and teacher in American society. Emphasis is given to current practices in school organization and classroom management techiques. Classroom observation experiences are included. (Fall and Spring)

300 Investigations in Elementary Education.
1, 2, or 3 hours.
Prerequisite: Junior standing or permission of the department head.
Individual investigations of methods and materials, curriculum problems, the elementary school and other areas of need or interest related to elementary education.

305 Teaching Mathematics in the Elementary School. 3 hours.
Prerequisites: Mathematics 211 and 212.
Materials and methods of instruction in elementary school mathematics with emphasis upon creative utilization of available materials and techniques. (Every Term)

307 Materials and Methods in Social Studies.
3 hours.
Prerequisite: Completion of five of the seven Social Science courses required in general education.
A study of the objectives, materials, organization and instructional techniques in the social studies appropriate to the elementary grades. (Every Term)

320 The Teaching of Reading. 3 hours.
An introduction to basic reading instruction in the elementary school; study of teaching methods, materials and resources related to reading skills development. (Every Term)

340e Evaluation of Learning. 3 hours.
A study that integrates evaluative techniques with the appropriate learning theories. It prescribes learning activities for the full-range of ability levels found in the elementary classroom. This includes the exceptional and disadvantaged child. (Every Term)

401 Pre-Student Teaching Seminar. 2 hours.
Prerequisite: Senior standing and/or completion of the professional education courses previously listed.
An attempt to help the student relate the materials and methods of the various aspects of elementary school teaching. Extensive direct involvement in elementary school classroom situations will be arranged. (Every Term)

403 The Elementary Curriculum. 3 hours.
Prerequisite: Senior standing.
This course is required of Art, Music and Physical Education majors seeking twelve grade certification. Issues and functions of elementary school education: A study of current patterns and techniques of curricular organization, the role of the teacher in effecting curricular change. (Every Term)

406 Teaching Science in the Elementary School. 3 hours.
Prerequisite: Completion of at least three science courses required in the General Education Program.
A study of the objectives and place of science in the elementary school. The course includes planning units of work, organizing and using materials and resources and developing ability in the techniques of elementary school science teaching. (Every Term)

420 Reading in the Primary Grades. 3 hours.
Prerequisite: EL ED 320.
A second reading course designed to offer a detailed view of the principles and methodologies in use today at the primary (K-3) school levels. (Every Term)

421 Reading in the Intermediate Grades.
3 hours.
Prerequisite: EL ED 320.
A second reading course designed to offer a detailed view of the principles and methodologies in use today at the intermediate (4-6) school levels. (Every Term)

445 Audio-Visual Materials and Methods.
3 hours.
Instruction and laboratory experience in the operation and maintenance of audio-visual equipment; theory relative to the best practices in audio-visual techniques. Cross-listed with Library Science.

446 Selection, Acquisition and Evaluation of Non-Print Materials. 3 hours.
Prerequisite: Permission of instructor.
This course will include instruction and experiences to enable students to locate sources of supply for non-print materials and to identify and use appropriate selection aids. The course will also be concerned with acquisition procedures and evaluative techniques appropriate to non-print materials. (Spring) Cross-listed with Library Science.

490e Student Teaching. 4 hours.
Available by permission of the department head.

490e Student Teaching. 8 hours.
Prerequisite: Admission to Teacher Education and to Student Teaching. (Every Term)

EARLY CHILDHOOD ENDORSEMENT

The program leading to endorsement of the Provisional Elementary certificate for teaching in kindergarten consists of EAR ED 310, 311, 412 and 493.

COURSES OF INSTRUCTION

In the professional education courses listed in this program, appropriate off-campus laboratory experiences must be entered into under the direction and supervision of appropriate University personnel and executed within the policy set forth by the University. University policy applies to the students who are at or in the laboratory situations.

108 Organizing the Preschool Classroom.
3 hours.
How to establish and maintain a safe and healthy learning environment with emphasis being given to developing essential skills in carrying out responsibilities related to children's programs.

109 The Physical and Intellectual Readiness of Preschool Children. 3 hours.
Methods for advancing the physical, cognitive, creative, and language development of Head Start children.

110 Supervised Experiences in the Preschool Classroom I. 2 hours.
A field based course in which the student is required to integrate the competencies developed in Erl. Ed. 108 and 109, and initiate the development of the CDA portfolio.

111 Strategies for Creating Positive Attitudes Toward Learning in Preschool Children.
3 hours.
A course for teaching the teacher to build self-concept and individual strength in Head Start children.

112 The Preschool Child in the Home and School Environment. 3 hours.
How to promote positive functioning of children and adults in a group and for helping the student learn how to bring about the optimal coordination of home and center in childrearing practices and expectations.

113 Supervised Experiences in the Preschool Classroom II. 2 hours.
A field based course in which the student is required to integrate the competencies developed in Erl. Ed. 111 and 112 and complete the development of the CDA portfolio.

208 Principles and Practices of Early Childhood Education. 3 hours.
Prerequisite: At least sophomore standing.
The first course in child development. A study of the growing child in different circumstances, such as: the family, institutions, foster homes and the association of these environmental circumstances to development. An understanding of varying modes and styles of growth which children follow to achieve selfhood.

309 Teaching Problems in Early Childhood Education. 3 hours.
Focus is on special needs of teachers who work or have worked in kindergartens or in other preschool settings. Problems which center around children, special methods, materials, the organization of programs and teacher-child relationship will be included.

310 Early Childhood Development, Education and Guidance. 3 hours.
Prerequisite: Psychology 320.
A basic course in physical, emotional, social and intellectual development; guidance of infants and children through five years of age. Supervised observations of children in this age period for the purpose of applying principles and plotting developmental changes. Required for kindergarten certification endorsement. (Every Term)

311 History and Organization of Preschool Programs. 3 hours.
Prerequisite: EL ED 320.
A study of kindergarten and nursery school development. Contributions of early leaders and advocates, such as Rousseau, Froebel, Montessori, MacMillans, Blow, Gessell, Baldwin, Erickson are studied. Contributions of recent leaders and current programs will be explored. Kinds of preschools for children, the physical plant, equipment, financing, standards, teacher-parent relationships will be investigated. Required for kindergarten certification endorsement. (Every Term)

412 Materials and Methods in Preschools.
3 hours.
Prerequisite: Psychology 320, EAR ED 310.
Emphasizes the organization of educational programs for kindergartens and nursery schools, the planning and using of materials, methods according to individual and group needs and interest of young children. Guided observations will be made in approved preschool programs. Two lecture periods and a two-hour lab. Required for kindergarten certification endorsement. (Every Term)

493 Student Teaching and Seminar in Kindergarten. 4 hours.
Prerequisite: EAR ED 310 and 412.
Supervised observation and teaching under professional supervision will be required. Required for kindergarten certification endorsement. (Every Term)

EXCEPTIONAL CHILD AREAS OF CONCENTRATION

LEARNING AND BEHAVIOR DISORDERS

The area of concentration in teachers of exceptional children: learning and behavior disorders (reference number 551) requires a minimum of 49 semester hours and leads to a Bachelor of Science degree. This program of study leading to the degree and provisional teacher certification for Exceptional Children: Learning and Behavior Disorders Grades 1-12 and the Provisional Elementary teaching certificate consists of 54 semester hours of general education courses, 13 semester hours of related studies, 24 semester hours of professional education and 49 semester hours of special education.

Courses comprising the special education area of concentration are: EXC ED 330, 331, 332, 333, 334, 430, 431, 432, 433, 434, 492D, EL ED 100, 340, EAR ED 309 and PSY 320.

TRAINABLE MENTALLY HANDICAPPED

The area of concentration in teachers of exceptional children: trainable mentally handicapped (reference number 552) requires a minimum of 49 semester hours and leads to a Bachelor of Science degree. This program of study leading to the degree and provisional teacher certification for Exceptional Children: Trainable Mentally Handicapped Grades 1-12 and the Provisional Elementary teaching certificate consists of 54 semester hours of general education courses, 13 semester hours of related studies, 24 semester hours of professional education courses and 49 semester hours of special education.

Courses comprising the special education area of concentration are: EXC ED 330, 331, 332, 333, 334, 415, 416, 431, 432, 433, 492T, EL ED 100, 340, EAR ED 309 and PSY 320.

SPEECH AND COMMUNICATION DISORDERS

The area of concentration in teachers of exceptional children: speech and communication disorders (reference number 595) requires a minimum of 50 semester hours and leads to a Bachelor of Science degree. This program of study leading to the degree and provisional teacher certification for Exceptional Children: Speech and Communication Disorders Grades 1-12 consists of 54 semester hours of general education courses, 9 semester hours of professional education and 50 semester hours of special education.

Courses comprising the special education area of concentration are: EL ED 320, EXC ED 330, 431, 492S, SP PATH 347, 381, 405, 481, 482, 483, 484, 485, 486, 487 and PSY 320.

MINOR IN SPECIAL EDUCATION

A minor in special education (reference number 467) requires a minimum of 21 semester hours. This is a non-certifiable minor. Students wishing to pursue this program should consult with the coordinator of Exceptional Child Education to obtain the courses comprising the program.

COURSES OF INSTRUCTION

In the professional education courses listed in this program, appropriate off-campus laboratory experiences may be required. Such off-campus experiences must be entered into under the direction and supervision of appropriate University personnel and executed within the policy set forth by the University. University policy applies to the students who are at or in the laboratory situations.

330 Survey of Special Education. 3 hours.
Prerequisites: PSY 320 and EL ED 320.
A survey of the characteristics of exceptionality: overview of special education programs, schools and community resources and research relative to exceptionality. (Fall, Spring)

331 Early Childhood Education for the Handicapped. 3 hours.
Prerequisites: PSY 320; EL ED 320; EAR ED 309.
Focus is on the development and implementation of preschool programs for the handicapped. Emphasis is on the implementation of current results of intervention research, curriculum modification and the development of methods and materials. (Fall, Spring)

332 Materials and Media with the Exceptional Child. 3 hours.
Prerequisite: Concurrent enrollment in Professional Semester.
Major emphasis is directed toward teaching the student to make appropriate choice and use of audio-visual media and adapted instructional materials in the content areas for exceptional individuals. (Fall, Spring)

333 Career Education for Exceptional Individuals. 3 hours.
Prerequisite: EXC ED 330.
Students are exposed to theory and practice of preparing exceptional individuals to enter the world of work and responsible adult citizenship. (Fall, Spring)

334 Professional Field-Based Seminar in Special Education. 4 hours.
Prerequisites: PSY 320; EL ED 320; EAR ED 309.
Students interact with exceptional individuals in classrooms and institutions to (1) discover the nature of exceptional individuals, (2) view programs and (3) make career decisions. (Fall, Spring)

415 Prescriptive Programming for the Trainable Mentally Retarded. 3 hours.
Prerequisite: Completion of Professional Semester.
Design, implementation and evaluation of individualized programs in curricula for trainable mentally retarded individuals. (Every Term)

416 Educational Assessment of Trainable Mentally Handicapped. 3 hours.
Prerequisite: Completion of Professional Semester.
Focus is on diagnosis, assessment and interpretation as critical components of the decision-making process relative to what constitutes an appropriate educational program. (Every Term)

430 Diagnosis for Instructional Planning. 3 hours.
Prerequisite: EL ED 320; 420/421.
This course will deal with the administration, scoring and educational utilization of various diagnostic instruments designed to assist the teacher in developing an educational profile for the individual with school related problems. (Every Term)

431 Language Intervention with the Handicapped Child. 3 hours.
Prerequisite: EXC ED 330.
An overview of language development is provided with emphasis placed on the educational remediation of the language disorders of the handicapped. Focus is on the utilization of methods and materials which foster language development. (Every Term)

432 Precision Teaching in Special Education. 3 hours.
Prerequisites: Completion of Professional Semester.
Major emphasis is upon setting realistic classroom performance objectives for exceptional individuals. This will involve terminology and methodology in managing a learning environment with appropriate record keeping systems. (Every Term)

433 Special Education Instructional Programs. 3 hours.
In this course the student will be exposed to the legal, administrative and educational factors involved in the provision of educational services for the exceptional individual. (Every Term)

434 Prescriptive Programming in Special Education. 3 hours.
Prerequisite: EXC ED 430 or 416.
This course is designed to serve as a pre-student teaching experience to allow a student to integrate the process of diagnostic-prescriptive teaching. (Every Term)

492D Student Teaching: Exceptional Children-Learning and Behavioral Disorders. 6 hours.

492S Student Teaching: Exceptional Children-Speech and Communication Disorders. 8 hours.

492T Student Teaching: Exceptional Children-Trainable Mentally Handicapped. 6 hours.

READING EDUCATION

RDG ED 090—College Reading Improvement is offered to any university student who elects or is advised to improve his reading and study skills. The course carries two semester hours of credit, but does not count as part of the student's requirements for graduation.

COURSE OF INSTRUCTION

090 College Reading Improvement. 2 hours.
Emphasizes improvement of basic vocabulary and comprehension skills and college study skills according to the needs of the participating students.

SECONDARY EDUCATION

The program leading to the Bachelor of Science degree and the Kentucky Provisional High School certificate consists of a minimum of 54 semester hours of general education, 20 semester hours of professional preparation, and one of three certifiable major-minor options. Courses comprising the professional preparation component are Sec. Ed. 370, 380, a methods course, 490s, and Psyc. 320. The certifiable major-minor options are as follows:

Option A: (Minimum of 54 hours)
1. a certifiable major of 30 semester hours minimum.
2. a second certifiable major of 30 semester hours minimum *or* a certifiable minor of 21 semester hours minimum.

Option B: (Minimum of 48 hours)
A certifiable area of concentration.

Option C: (Minimum of 54 hours)
1. a certifiable major of 30 semester hours minimum.
2. a non-certifiable supportive minor of 18 semester hours minimum with approval of the advisor in the major field and secondary education.

Students are expected to work closely with their assigned advisors in majors, minors and professional education.

When students attain junior standing, they are eligible to enroll in Secondary Education courses. They must enroll in the first two courses, Psych. 320 and Sec. Ed. 370, concurrently. Application for admission to Teacher Education is made following completion of Sec. Ed. 370. The next two required courses (Sec. Ed. 380-Sec. Ed. 466-488) may be taken concurrently or separately. If taken separately, Sec. 380 must precede the methods course. Students are not permitted to enroll in more than two of the above Secondary Education courses in the same semester.

Admission to student teaching requires that the student has:

a. Been admitted to teacher education.
b. Applied for student teaching at the beginning of the preceding semester.
c. An overall grade point average of 2.25 in:
   (1) overall hours
   (2) major(s)
   (3) minor(s)
   (4) professional education
d. Completed 75% of the major or all of the minor if student teaching is to be done in the minor.
e. Completed all professional education courses — Psychology 320, Education 370, 380 and the methods course.
f. A physical examination and submit a report of the results. (A form is provided for this purpose by the Student Teaching Office).

JUNIOR HIGH/MIDDLE SCHOOL EDUCATION

The program leading to the Bachelor of Science degree and the Kentucky Junior High/Middle School certificate consists of a minimum of 54 semester hours of general education, 26 semester hours of professional preparation and one of three plans of teaching specialization. Courses comprising the professional preparation component are: El. Ed. 100 or Sec. Ed. 370, Sec. Ed. 380, 444, 450 (455), 490s, Psyc. 320 and 421.

The optional plans for the teaching specialization are:

Plan 1. Two areas of specialization of at least 24 semester hours each and one area of specialization of at least 12 semester hours.

Plan 2. One area of specialization of at least 24 semester hours and three areas of specialization of at least 12 semester hours.

Plan 3. One area of specialization of at least 30 semester hours, one area of specialization of at least 21 semester hours and one area of at least 12 semester hours.

Information regarding the sequence of courses in any of these plans may be secured from the advisor for Junior High/Middle School Programs.

1. Areas of 24 or more hours of specialization are:

a. **Biology**—30 semester hours minimum. *Required courses:* Biology 148, 149, 156, Chemistry 120, 121, 122, 123, Physics 231, 207, 232, 208. A *minimum of 5 hours elected from:* Biology 131, 315, 327, 348.

b. **Chemistry**—24 semester hours minimum. *Required courses:* Chemistry 120, 121, 122, 123, 230. *Electives:* Chemistry courses numbered 300 or above to total a minimum of 24 semester hours.

c. **English and Communications**—30 semester hours minimum. *Required courses:* English 101, 102, 183, 302, 381, 382, 391, 392, Speech 449, Lib. Science 288 or 403.

d. **French**—30 semester hours minimum. A minimum of 30 hours of French, including elementary courses.

e. **Geography**—24 semester hours minimum. *Required courses:* Geography 100, 350, 324, 360. *Electives:* A minimum of 6 semester hours in Regional Courses; a minimum of 6 semester hours in Topical Courses.

f. **German**—30 semester hours minimum. A minimum of 30 semester hours in German including the elementary courses.

g. **Health**—24 semester hours minimum. *Required courses:* Health & Safety 260, 361, 461, Biology 131. *Electives:* A minimum of 12 hours selected from: Health & Safety 270, 363, 365, 465, 456, 460, 469, 481, 482, Psychology 250.

h. **History**—30 semester hours minimum. *Required courses:* History 140, 141, 119, 120. *Eighteen additional semester hours* of 300-400 level courses divided between American and non-American history; 3 semester hours of the 18 additional hours must be non-American, non-European history.

i. **History and Government**—33 semester hours minimum. *Required courses:* History 140, 141, 119, 120. *Electives:* Nine semester hours of History at the senior college level. *Required courses:* Government 110, 210, 211. *Electives:* Three semester hours of Government at the senior college level.

j. **Humanities and Fine Arts**—Twenty-four semester hours minimum. *Required courses: Six* semester hours in *each of three* fields to be chosen from the following: Art, Literature, Music, Philosophy. *Electives:* An additional 6 semester hours to be selected from one of the above fields. The requirements for this major must be met under one of the following plans:

Plan I: 24-24-12 (Two majors of at least 24 semester hours each and one semi-major of 12 hours).

Plan II: 24-12-12-12 (One major of at least 24 semester hours and three semi-majors of 12 hours each).

The Dean of Potter College of Arts and Humanities or his designated representative will serve as advisor for this major.

k. **Mathematics**—25 semester hours minimum. Required courses:

i. Mathematics 213, 118, 126, 227, 237, 323 and either 309, 315 or Computer Science 240.

or

ii. Mathematics 103, 126, 227, 237, 323, Computer Science 240 and three semester hours of mathematics numbered 300 or above.

l. **Physics**—25 semester hours minimum. *Required courses:* Physics 201, 202, 205, 206, 312, 325, 425. *Electives:* Three semester hours elected from Astronomy.

m. **General Science**—36 semester hours minimum. The 36 semester hours as outlined below meet the requirements for one major and one semi-major under appropriate options for junior high/middle school certification. *Required courses:* The courses listed in *three* of the following four areas: (1) *Biology:* Biology 148, 149, 156. (2) *Chemistry:* Chemistry 105, 106, 107, 108. (3) *Earth Science:* Geography 121, Geology 102, 113. (4) *Physics and Astronomy:* Physics 101, 102, Astronomy 104. Five semester hours of mathematics must be completed. Exception: Mathematics 126—Calculus and Analytic Geometry (4 hours) may be used to satisfy this requirement. *Electives:* Complete the requirements listed below from the area (1, 2, 3, or 4) not elected above. (1) *Biology:* Complete the courses required for the 30 hour major, or the 12 hour semi-major or the 21 hour minor for secondary education. (2) *Chemistry:* Chemistry 120, 121, 122, 123, 230 or Chemistry 105, 106, 107, 108, 470. (3) *Earth Science:* Geography 105 or 106; Geography 107 or 108; Geology 102 or 111; Geology 112, 113, 114. (4) *Physics and Astronomy:* Complete the courses required for the 25 semester hour major or the 12 hour semi-major.

A student may meet the General Science requirement by selecting two of the areas under *Required courses* above and two areas from the four *Electives* categories.

n. **Social Sciences**—30 semester hours minimum. *Required courses:* History 140, 141, 120, Geography 350, a 3-hour topical course and a 3-hour regional course in Geography, Sociology 440. *Electives:* The *nine* semester hours listed in *one* of the following three areas: Government 110, 210, 211, or Economics 202, 203, 303, or Sociology 110, 250, 335.

o. **Sociology**—24 semester hours minimum. *Required courses:* Sociology 110; Social Work 285 or Sociology 250; Sociology 320, 346, 365, Anthropology 440, Economics 202, 203.

p. **Spanish**—30 semester hours minimum. A minimum of 30 semester hours in Spanish, including elementary courses.

q. **Speech and Dramatics**—24 semester hours minimum. *Required courses:* Speech 145, 149, 247, Theatre 255; Speech 349 or 352; Speech 351 or Theatre 353; Speech 449. *Electives:* Three semester hours senior college elective in Speech.

2. Twenty-one or more semester hours of specialization:

This option is available under Plan 3 (30-21-12). The 21 hour areas of specialization are the same as the minors under the secondary teacher certification options.

3. Semi-majors, 12 or more semester hours.

*a. **Art**—12 semester hours minimum. *Required courses:* Art 100, 130, 140, 311.

b. **Biology**—12 semester hours minimum. *Required courses:* Biology 148, 149, 156. *Electives*—5 semester hours elected from: Biology 131, 315, 326, 327, 348.

c. **Chemistry**—12 semester hours minimum. *Required courses:* Chemistry 105, 106, 107, 108, 470.

*d. **Economics**—12 semester hours minimum. *Required courses:* Economics 202, 203. *Electives*—6 semester hours from: Economics 300, 305, 370, 430.

e. **Geography**—12 semester hours minimum. *Required courses:* Geography 100, 350, 324, 360.

f. **Geography and Geology**—18 semester hours minimum. *Required courses:* Geology 111, 112, Geography 100, 350, 324, 360.

*g. **Government**—12 semester hours minimum. *Required courses:* Government 110, 210, 252; Government elective, 300 or 400 level.

*h. **Health**—12 semester hours minimum. *Required courses:* Health and Safety 260, 361, 363, 365, 465, 469. *Electives*—3 semester hours from: Health and Safety.

i. **History**—12 semester hours minimum. *Required courses:* History 140, 141, 119, 120.

j. **History and Government**—18 semester hours minimum. *Required courses:* History 140, 141, 119, 120, Government 110, 210.

*k. **Journalism**—12 semester hours minimum. *Required courses:* Journalism 202, 321, 323 or 325; Journalism elective 3 hours.

l. **Mathematics**—15 semester hours minimum. *Required courses:* 213, 118, 126 and either 303 or Computer Science 240.

m. **Physics**—12 semester hours minimum. *Required courses:* Physics 101, 102, 104, 325.

*n. **Psychology**—12 semester hours minimum. *Required courses:* Psychology 100, 410. *Electives*—6 semester hours elected from: Psychology 250, 260, 432, 450.

*o. **Sociology**—12 semester hours minimum. *Required courses:* Sociology 110; Sociology 250 or Social Work 285; Sociology 320, 346.

*p. **Speech**—12 semester hours minimum. *Required courses:* Speech 145; Speech 247 or 349; Speech 345, 449.

*q. **Theatre**—12 semester hours minimum. *Required courses:* Theatre 152, 252, 255; Theatre 352 or 353.

*Only *one* semi-major listed with an asterisk can be included in any one of the three plans approved for junior high/middle school certification.

COURSES OF INSTRUCTION

In the professional education courses listed in this program, appropriate off-campus laboratory experiences may be required. Such off-campus experiences must be entered into under the direction and supervision of appropriate University personnel and executed within the policy set forth by the University. University policy applies to the students who are at or in the laboratory situations.

370 Introduction to Education. 3 hours.
An analysis of the foundations of American public education. Qualification, performance and general expectations of the secondary teacher are stressed. Students complete a teacher aide experience in the public schools during this course. (Every Semester)

380 Test and Measurement in Education. 3 hours.
Prerequisites: Education 370 and Psychology 320.
The basic concepts of measurement and evaluation; developing teacher-made tests on the basis of behavioral objectives; selection and use of standardized tests; statistical analysis and interpretation; marking and reporting. (Every Semester)

444 Education—Reading Instruction in Junior and Senior High Schools. 3 hours.
The principles, psychology and methodologies for teaching the general and the specialized reading skills in the secondary grades. (Every Semester)

450 Education—Junior High School Methods and Materials. 3 hours.
This course is concerned with junior high/middle school philosophy, organization and curriculum. In addition, it is to present an extensive examination of methods and materials of instruction appropriate to early adolescent education. (Fall)

455 Education—The Junior High School. 3 hours.
This course aims at developing an under-

standing of the junior high/middle school and its role in American education. Considerations will be given to the philosophy, functions and total program of early adolescent education, including curriculum, guidance, student activities, personnel and administration. (Fall)

465 *Materials and Methods in Secondary Education. 2 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to secondary teaching, better preparing the prospective teacher for future teaching in secondary schools. (On Demand)

466 Materials and Methods in General Business and Accounting. 2 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of business education, further preparing the prospective teacher for future teaching experiences in General Business and Accounting. (Fall Semester, First Bi-Term)

467 *Materials and Methods in Secretarial Subjects. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Extended laboratory experiences related to the teaching of business subjects provides the prospective teacher with additional insight and preparation for future teaching experiences in secretarial subjects. (Spring Semester, First Bi-Term)

468 *Materials and Methods in English. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of English, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in English. (Every Semester)

469 *Materials and Methods in Foreign Language. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of a foreign language, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in foreign language. (Fall Semester, First Bi-Term)

470 *Materials and Methods in Mathematics. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of mathematics, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in mathematics. (Fall Semester, First Bi-Term)

471 *Materials and Methods in Physical Education. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of physical education, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in physical education. (Every Semester)

473 *Materials and Methods in Science. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of the physical and biological sciences, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in the physical and biological sciences. (Fall Semester, First Bi-Term)

474 *Materials and Methods in Social Studies. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of the social sciences, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in the social sciences. (Every Semester)

475 *Materials and Methods in Speech. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of speech, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in speech. (Fall Semester, First Bi-Term)

476 *Materials and Methods in Art. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to the teaching of art, affording the prospective teacher additional insight into strengthening and broadening future teaching experiences in art. (Spring Semester, First Bi-Term)

477 *Materials and Methods in Library Science. 3 hours.
Prerequisites: SEC ED 370, Psychology 320. Laboratory experiences related to library science, affording the prospective librarian additional insight into strengthening and broadening future experiences in library science. (Spring Semester, First Bi-Term)

487 Methods of Teaching Vocational Agriculture.
See course description under Agriculture.

488 Young and Adult Farmer Education.
See course description under Agriculture.

490 Student Teaching. 8 hours.
Prerequisites: SEC ED 370, Psychology 320, 340 and one of the courses 465-477 or its substitute. (Every Semester)

*Students majoring in industrial arts,, music and home economics may substitute the following courses for one of the courses 465-477.

370 Methods in Teaching Home Economics. 3 hours.

471 Advanced Methods in Home Economics. 3 hours.

353 Teaching Shop Subjects. 2 hours.

303 Teaching Shop Subjects. 2 hours.

416 Instrumental Music Methods. 3 hours.

415 Choral Music Methods. 3 hours and/or

313 Teaching Music in the Junior High School. 2 hours, and/or

314 Instrumental Music Techniques. 2 hours.

COURSES WHICH MAY BE TAKEN FOR GRADUATE CREDIT

EL ED 412G Materials and Methods of Preschool. 3 hours.

EL ED 420G Reading in the Primary Grades. 3 hours.

EL ED 442G Reading in the Intermediate Grades. 3 hours.

EL ED 445G Audio-Visual Materials and Methods. 3 hours.

EL ED 446G Selection, Acquisition, and Evaluation of Non-Print Materials. 3 hours.

SEC ED 444G Reading Instruction in Junior and Senior High Schools. 3 hours.

DIVISION OF EDUCATIONAL SERVICES

Dr. Norman D. Ehresman, Head

The Division of Educational Services consists of the Center for Career and Vocational Teacher Education, Center for Child Learning and Study, Field Services, Office of Educational Research, Adult and Community Education Unit, and Training and Technical Assistance for Head Start Programs.

Center for Career and Vocational Teacher Education

The faculty of the Center for Career and Vocational Teacher Education consists of Professor C. Riley, Associate Professors D. Cline and N. Schira, and Instructor M. Riley. Staff Assistants are S. Adams and P.Richardson.

The Center provides coordination and direction for vocational teacher education. It provides a focal point with the University for organizing resources to provide vocational teacher and administrator preparation, research, evaluation, service to schools and the development of curriculum models for career education.

The Center includes the administrative personnel necessary to insure that the University-wide vocational teacher education responsibilities of the Dean of the College of Education are carried out in the areas of personnel qualifications, curriculum development, teacher education policy development and program supervision.

Both undergraduate and graduate courses are offered in several academic departments within the University. Students interested in majors or minors in one of the phases of vocational teacher preparation should consult with the respective department heads for specific requirements. Persons interested in graduate programs or certification in vocational education should contact Dr. Dwight Cline.

Center for Child Learning and Study

The Center for Child Learning and Study consists of the instructional component, which is the Jones-Jaggers Laboratory School under the direction of Dr. Carl Martray; the diagnostic services component under the direction of Dr. James A. Gibbs; and the research component under the direction of Dr. Ronald D. Adams.

The functions associated with the Center for Child Learning and Study include instruction, diagnostic service, and child study; and its purpose is to operate an integrated program that provides optimum learning environments for children. The laboratory school instructional programs component exists to provide a variety of clinical learning experiences for students in teacher education by operating unique educational programs for children K-6. As the major instructional component of the total center, the laboratory school responsibility is to develop sound educational programs based on instructional models founded in currently identifiable theory. The diagnostic services component supports the Jones-Jaggers Laboratory School and other teacher education programs of the university by providing direct child services. The child study component serves as a model for data collection and analysis as well as to organize and evaluate the instructional models being developed in the Laboratory School.

The Jones-Jaggers Laboratory School consists of Associate Professor Carl Martray, Coordinator; Assistant Professors P. Beach, D. Harris, H. Mitchell, E. Monroe, J. Powell; Instructors J. Broyles, J. Carroll, V. Foe, R. Meredith, and C. Simmons.

Field Services

Field Services, under the direction of Mr. Jack Neel, has the responsibility of maintaining contact with school districts within the service area of Western. Assistance is available to identify staff development needs and to deliver training activities based on those needs. A delivery system, the Professsional Development Center Network, has been designed to foster cooperation and collaboration between the College of Education and participating school districts. The development of training packages available for implementation within school districts is a continuing responsibility.

Educational Research

The Office of Educational Research, under the direction of Dr. Ronald D. Adams, provides services in the areas of

educational research and evaluation to agencies, faculty, and students within the university and to public and private school personnel within Western's service area. The Office is responsible for providing administrators within the college and university information that is utilized in administrative decision making. In addition, this unit is conducting an extensive, ongoing, follow-up evaluation of graduates to aid in improving teacher education programs. Staff Assistant R. Cobb is also in this office.

Adult and Community Education

The Adult and Community Education Unit, under the direction of Dr. Donald C. Butler, offers assistance to local school districts and communities desiring to initiate or improve adult and community education programs. The unit provides training programs, both credit and noncredit; a graduate program is available; and workshops, seminars, and forums on special topics are offered upon demand. The unit can also provide program development assistance in the areas of needs assessment, program planning and evaluation. Faculty includes Assistant Professor J. Thorne.

COURSES OF INSTRUCTION

370W Workshop/Independent Study in Community, Career and Vocational Education. 1-3 hours.

404 Adult and Community Education: History and Contemporary Perspective. 3 hours.

416 Coordination Techniques in Distributive Education. 3 hours.

417 Curriculum Development in Distributive Education. 3 hours.

428 Techniques of Teaching Distributive Education. 3 hours.

479 Research and Development in Health Occupations Education. 3 hours.

480 Seminar in Health Occupations Education. 2-4 hours.

482 Clinical Teaching Techniques in Health Occupations Education. 3 hours.

483 Curriculum Planning in Health Occupations Education. 3 hours.

484 Instructional Materials in Health Occupations Education. 3 hours.

485 Methods of Teaching Health Occupations. 3 hours.

490 Student Teaching in Distributive Education. 8 hours.

578 Methods and Materials in Teaching Adults. 3 hours.

581 Organization and Administration of Occupational Education. 3 hours.

582 Organization and Administration of Community Education Principles. 3 hours.

591 The Administration, Management and Finance of Federal-State Occupational Education Programs. 3 hours.

592 Program Planning in Occupational Education. 3 hours.

593 Planning and Equipping Occupational Education Facilities. 3 hours.

594 Seminar on Leadership. 3 hours.

595 Supervised Practice in the Administration of Occupational Education Programs. 3-6 hours.

596 Occupational Education in the Community/Junior College. 3 hours.

598V The Organization and Supervision of Student Teachers in Vocational Education. 3 hours.

693 Programs in Continuing Education. 3 hours.

College of Science and Technology

Dr. Marvin W. Russell, Dean
Thompson Complex-
Center Wing, 105

The Ogden College of Science and Technology is composed of the departments of Agriculture, Biology, Chemistry, Engineering Technology, Geography and Geology, Mathematics and Computer Science and Physics and Astronomy. Represented within this grouping of academic disciplines are the natural and applied sciences, mathematics, computer science, certain fields within the realm of the social sciences and preprofessional and professional curricula. Baccalaureate majors and minors are offered in each department. Various master's degree programs and cooperative doctoral programs in Aquatic Biology and Spectroscopy and Reactions of Free Radical Chemistry with the University of Louisville are offered through the Graduate College. The two-year associate degree is offered in agricultural technology, agricultural equipment management, civil, electrical, and mechanical engineering technology, cartographic and mapping techniques and meteorological technology.

The Ogden College of Science and Technology continues the name and is centered on the campus of Ogden College, an educational institution which was established in Bowling Green in 1877 by an endowment from Major Robert W. Ogden. In 1878, the estate of Major John E. Robinson contributed an endowment which made possible the establishment of a Chair of Natural Science. In 1912, Mr. C. Perry Snell, a former student, contributed $30,000 in matching funds to be used for the building of an auditorium and a science library. A major financial contribution was bequeathed in 1939 by Judge R. C. P. Thomas who served as Ogden Regent, 1911-1939. In 1928, the original Ogden College properties were leased by Western, and by agreement with the Western Board of Regents, Ogden became the Ogden Department of Science.

On June 1, 1960, the Ogden Board of Trustees and Western's Board of Regents signed a ninety-nine year lease granting Western the right to use the existing buildings and to construct new buildings on Ogden Campus.

Those interested in more detailed information about programs offered by departments of this college should write directly to the appropriate department or to the Dean of Ogden College of Science and Technology.

DEPARTMENT OF AGRICULTURE

ENVIRONMENTAL SCIENCES & TECHNOLOGY BUILDING, ROOM 269

Associate Professor J. P. Worthington, Acting Head

Professors: L. Brown, E. Gray, R. Johnson, G. Jones, J. McGuire, W. Normand, W. Stroube
Associate Professors: B. Adams, A. Bedel, C. Mitchell, R. Schneider, J. Worthington
Assistant Professors: D. Coffey, L. Greeley, J. Martin
Instructors: C. Anderson, O. Dotson, W. Stone
Farm Manager: K. Kidd
Dairy Herdsman: C. Jones

The complexity of the technological and financial structure of modern agriculture has made education increasingly important to farming success. It has also brought about a need for personnel to fill positions in various businesses and professions which support agriculture.

Processing and marketing of agricultural products and supplying of agricultural chemicals, machinery, seed, feed and other products require research, sales and service personnel who have met specific educational requirements. Also, governmental agencies which conduct research, extension and advisory activities are staffed by highly trained agricultural personnel.

The Department of Agriculture strives to fill the needs of both the student who requires general technical knowledge to practice farming and the student who needs more specialized training to pursue one of the above careers. This is accomplished by offering a choice of several specific curricula, each with enough flexibility to allow varying degrees of specialization within the curriculum.

In order to complete the 128 semester hours required for a Bachelor of Science degree in Agriculture, students should complete the basic curriculum and one of the field-of-specialization options. The basic curriculum includes the general education requirements and specialty support requirements as well as basic professional courses in agriculture. The field-of-specialization options consist of agri-business, agricultural education (which contains the specific requirements for vocational agriculture teacher certification, and although students may be certified in general agriculture and be qualified to teach in approved minor fields, deviations from this curriculum must be approved before application for student teaching can be accepted), agricultural mechanization, agronomy (plant science or soil science), animal science, conservation-rural recreation, dairy science, general agriculture, horticulture and wildlife ecology conservation. The field-of-specialization options allow students to vary their course selection to better meet their particular area of interest. Specific courses, other than those required, will be chosen by the student in consultation with an assigned advisor.

MAJOR IN AGRICULTURE

The major in agriculture (reference number 605) requires completion of a minimum of 24/36 semester hours and leads to a Bachelor of Science degree. These hours must be taken in approved agriculture courses and a suitable major or minor(s) in other departments must be earned to total at least 54 approved semester hours. Agriculture courses required for a major are: 108, 110, 140, 170, 345, 350, 360 and 398. Electives chosen by the student and approved by an assigned advisor provide sufficient credits to satisfy an option. In addition, majors are required to complete courses in biology, chemistry and mathematics. At least half of the semester hours in the major must be in courses numbered 300 or above.

AREA OF CONCENTRATION IN AGRICULTURE

The area of concentration in agriculture (reference number 508) requires a minimum of 50 semester hours in agriculture and leads to a Bachelor of Science degree. Agriculture courses required for the area of concentration are: 108, 110, 140, 170, 345, 350, 360 and 398. Electives chosen from agriculture courses and focusing on a field-of-specialization option, when approved by an assigned advisor, complete the total of a minimum 50 semester hours in agriculture. No minor is required for the student following an area of concentration in agriculture.

MINOR IN AGRICULTURE

The minor in agriculture (reference number 308) requires a minimum of 18/21 approved semester hours in agriculture, including 398 and at least 3 other courses numbered 300 or above.

ASSOCIATE DEGREE PROGRAMS

A two-year program leading to the Associate of Science degree is offered by the Department of Agriculture in cooperation with the Bowling Green Community College. The associate degree program is a two-year technical program designed to fulfill the needs of students primarily interested in the application of modern agriculture technology and management (reference number 205) and agricultural equipment management (reference number 202). For further information about the associate degree program consult the Bowling Green Community College bulletin or contact the Department of Agriculture.

WILDLIFE ECOLOGY AND CONSERVATION

An undergraduate program for students interested in wildlife ecology and conservation is offered within the major-minor combination at Western Kentucky University. The program, offered jointly by the Departments of Agriculture and Biology, consists of a major (minimum of 30 hours) in either agriculture or biology and a minor (minimum of 18 hours) in the other department—the total major-minor combination equalling at least 54 hours. The nature of the student's interest will determine not only the major and minor departments for his program, but also the elective courses most useful to his needs.

Students interested in this program should contact either the Department of Agriculture or the Department of Biology for specific details.

GRADUATE DEGREE PROGRAMS

Graduate programs in agriculture are offered leading to: Master of Science Plan A—(thesis) or Plan B—(non-thesis), Master of Arts in Education and Master of Public Service degrees. These programs allow more specialization in professional areas of agriculture in preparation for employment or additional graduate study. Graduate assistantships are available to qualified students. For further information see the Graduate College Bulletin or contact the Department of Agriculture.

COURSES OF INSTRUCTION

GENERAL AGRICULTURE (AGRI)

101 The Science of Agriculture. 3 hours.
Lectures, suggested reading and optional field trips are employed to give students inexperienced in agriculture insight into the basic technology of an industry fundamental to present and future quality of life. Does not count toward agriculture major credit. Lecture, three hours.

108 Rural Sociology. 3 hours.
The study of rural social groups and interaction in rural and suburban America as well as in rural areas of the world. The influences of basic concepts of society and culture and the relationship of rural population, class, social institution, and groups on rural social change are stressed. (Fall, Spring)

325 Entomology. 3 hours.
See Biology 325 for course description.

327 Genetics. 3 hours.
See Biology 327 for course description.

398 Seminar. 1 hour.
Prerequisites: Senior standing in biology or agriculture and instructor's consent.
Current literature from representative journals in the field of agricultural research is reviewed orally by students. Discussion, one hour. May be repeated for a maximum of two hours.

399 Research Problems in Agriculture.
1 to 3 hours.
Prerequisites: 3.0 and senior standing and instructor's consent.
This is a course provided to give students an opportunity to pursue a thorough study of some particular phase of agriculture. Credit to be arranged.

428 Population Genetics. 3 hours.
Prerequisites: Biology 327 or equivalent.
Statistical principles are applied to biological populations in relation to gene frequency, zygotic frequency and mating systems. The effects of selection, mutation and migration on equilibrium populations are considered. Lecture, three hours.

475 Selected Topics in Agriculture.
1 to 3 hours.
Prerequisite: Consent of instructor.
Special topics are presented to acquaint advanced undergraduate students with the more significant problems and scientific developments of current interest in agriculture. Appropriate special topic titles are assigned. Lecture and assignments are variable with credit. The course may be repeated with change in content.

478 Geography of Agriculture. 3 hours.
See Geography 478 for description.

480 Professional Field Experience in Agriculture. 2 to 4 hours.
Prerequisite: Major or minor in Agriculture or instructor's consent.
Supervised internship for agriculture majors and minors to give experience in sales, management, production, logistics and other phases of agri-business. Seminar participation and a written summary of internship activities are required. Credit commensurate with assignment.

491 Data Analysis and Interpretation.
3 hours.
Prerequisite: Mathematics 100 or instructor's consent.
This course includes basic concepts of statistical models and use of samples. Variation, statistical measures, distributions, tests of significance, analysis of variance and elementary experimental design, regression and correlation as related to interpretation and use of scientific data are discussed. Lecture, three hours.

AGRONOMY—PLANT SCIENCE

110 Introduction to Plant Science. 3 hours.
Principles of plant growth and development are applied to agriculture. Lecture, three hours. (Fall, Spring)

311 Agronomy. 3 hours.
Prerequisites: Biology 148 or Agriculture 110.
Emphasis is given to principles of growth and development of major agronomic plants, and special attention is paid to their management. Special consideration is given to Kentucky's major agronomic crops. Lecture two hours; laboratory, two hours.

317 Plant Pathology. 3 hours.
Prerequisites: Agriculture 110 and Biology 248 or instructor's consent.
See Biology 317 for description.

318 Forestry. 3 hours.
Prerequisites: Biology 148 and 248 or Biology 148 and Agriculture 110; Agriculture 350.
Seedling tree nurseries, their location and care; the role of forestry in erosion control, land beautification and recreation purposes; harvesting and marketing; opportunities in forestry for a career. The principles of proper land utilization, care of the forest, fire control, thinning and other cultural practices are studied. Lecture, three hours. Field trips as needed.

320 Crop Physiology. 3 hours.
Prerequisites: Biology 148 and Chemistry 105 or equivalent.
The effect of various physiological and environmental factors on crop production and the effects of post-harvest treatments on crop quality are discussed. Lecture, 3 hours.

348 Local Flora. 3 hours.
See Biology 348 for course description.

400 Plant Physiology. 3 hours.
See Biology 400 for course description.

409 Weed Science. 3 hours.
Prerequisites: Biology 148 and 248 or Agriculture 110; Chemistry 105 and 107 or equivalent.
Identification of prominent weed species; relationship of weeds to crop production problems; control measures, both physical and chemical, are presented. Lecture, two hours; laboratory, two hours.

410 Crop Protection. 3 hours.
Prerequisites: Chemistry 107 or equivalent; two courses in Plant Science or instructor's consent.
General principles applicable to the control of insects, weeds, diseases and animal pests which reduce the yields or values of Kentucky crops and cultural, biological and other means of control are included. Lecture, three hours.

411 Turfgrass Management. 3 hours.
Prerequisites: Agriculture 110 or permission of instructor.
A study of turfgrass, including adaption, identification, uses and fundamental principles essential for establishing and maintaining quality turf in lawns and recreational areas. Lecture, three hours.

414 Plant Breeding. 3 hours.
Prerequisites: Biology 327 or instructor's consent.
A study of the methods and techniques used in the application of genetic principles to the improvement of crop plants. Lecture, three hours.

421 Forage Crops. 3 hours.
Prerequisite: Agriculture 110, 350 and Biology 148.
Distribution, improvement, establishment, production and storage of forage crops, soil-plant-animal complex as it relates to the morphology, physiology and utilization of forage. Lecture, two hours; laboratory, two hours.

422 Field Crops. 3 hours.
Prerequisites: Agriculture 110 and 350, Biology 248 or consent of instructor.
Distribution, improvement, morphology, culture, harvesting and utilization of field crops are presented. Lecture, two hours; laboratory, two hours.

AGRONOMY—SOIL SCIENCE

350 Soils. 4 hours.
Prerequisites: Chemistry 107 or 222 or concurrently with Chemistry 107 or 222.
A general study of soil properties and processes emphasizing soil management and its application to agriculture. Lecture, three hours; laboratory, two hours. (Fall, Spring)

351 Soil Fertility and Fertilizers. 3 hours.
Prerequisite: Agriculture 350.
Soil reactions of elements essential for plant growth and development; sources and manufacture of fertilizer materials; use of fertilizers and lime from a plant-soil relationship; use of sound management practices are stressed. Lecture, three hours.

450 Soil Chemistry. 3 hours.
Prerequisites: Agriculture 350, Chemistry 222 or instructor's consent.
Analytical techniques used in soil chemistry and soil fertility studies and nutrient determination; colloidal systems; chemical properties are related to plant nutrition. Lecture, two hours; laboratory, two hours.

451 Soil Management. 3 hours.
Prerequisites: Agriculture 350, 351, 361 or consent of instructor.
Evaluations of those characteristics of soils which determine their productive potential, and incorporating these characteristics and the prevailing climate to make decisions regarding the intensity of use of the soils to maximize production and/or net income. Lecture, two hours; laboratory, two hours.

452 Soil Microbiology. 4 hours.
Prerequisites: Agriculture 350 and Biology 307 or instructor's consent.
Soil microbial populations and systems and their influence on plant nutrition, soil organic matter, its decomposition and associated microorganisms; oxidation-reduction process; nitrogen fixation are presented. Lecture, two hours; laboratory, four hours.

453 Soil Formation, Classification and Mapping. 3 hours.
Prerequisite: Agriculture 350.
Soil origin; methods of soil survey; classification schemes; profile description, mapping and interpretation of soil survey information emphasizing Kentucky soils. Lecture, two hours; laboratory, two hours.

454 Land-Use and Conservation. 3 hours.
Prerequisites: Agriculture 361 or instructor's consent.
Included are: economic utilization of land for agricultural, recreation and public purposes based on location and capability characteristics; interpretation and application of soil survey information for best interests in crop production, conservation, public and industrial use; practice in designing land-use maps. Lecture, three hours.

455 Soil Physics. 3 hours.
Prerequisites: Agriculture 350; Physics 201 and 207 or instructor's consent.
Relation of physical properties of soils to plant growth; particle-size distribution, soil structure, clay, minerals, soil moisture, rheological properties and soil temperature are investigated. Lecture, two hours; laboratory, two hours.

551 Advanced Soil Fertility. 3 hours.

ANIMAL SCIENCE

140 Introduction to Animal Science. 3 hours.
Included are: principles of feeding, breeding, housing and control of diseases of all types of farm animals; origin, development and characteristics of breeds. Lecture, three hours. (Fall, Spring)

331 Poultry Management. 3 hours.
Principles of poultry husbandry; breeds, improvement, incubation and breeding, feeding, housing, disease control, marketing are presented. Lecture, two hours; laboratory, two hours.

334 Horse Production and Management. 3 hours.
History and importance of the equine industry, characteristics of breeds and classes of horses and ponies for work and pleasure, genetics, breeding, nutrition, pests, management and marketing of pleasure horses are presented. Lecture, two hours, laboratory, two hours.

338 Live Animal Evaluation. 3 hours.
Prerequisites: Agriculture 140 or instructor's consent.
Criteria are discussed for determining cutability and quality grades of slaughter market animals, both on the hoof and in the carcass; live animal estimates of carcass fat, muscle and skeletal measurements that are related to subsequent carcass composition. Lecture, two hours; laboratory, two hours.

340 Meats and Meat Products. 3 hours.
Prerequisites: Agriculture 140 for agriculture majors.
A non-technical course designed for the average consumer. The role of meats and meat products in human nutrition; meat substitutes; grading and inspection; identification and selection of wholesale and retail cuts of meat; care and storage of meat products is studied. Lecture, two hours; laboratory, two hours.

341 Dairy Cattle Judging. 3 hours.

Prerequisite: Agriculture 140.
Included are evaluation of purebred and commercial dairy animals; practice in writing and orally presenting reasons. Lecture, one hour; laboratory, four hours.

343 Sheep Management. 3 hours.
Prerequisites: Agriculture 140 and 345.
History and importance of the sheep industry; programs and areas of production; selection, breeding, feeding and management; common diseases are stressed. Lecture, two hours; laboratory, two hours.

344 Physiology and Anatomy of Domestic Animals. 3 hours.
Prerequisites: Biology 148 or 258; Agriculture 140.
Physiology and anatomy as related to livestock production, nutrition and diseases emphasizing digestive, reproductive and endocrine systems. Lecture, three hours.

345 Animal Feeds and Feeding Practices. 4 hours.
Pre/Co-requisite: Chemistry 107 or equivalent.
Prerequisite: Agriculture 140.
Livestock feeds and their nutrients; functions of and requirements for nutrients; evaluation of feeds, feeding practices and formulation of rations for all classes of livestock are included. Lecture, three hours; laboratory, two hours. (Fall, Spring)

347 Animal Pathology. 3 hours.
Prerequisite: Agriculture 140.
Distribution, nature, manner of dissemination, methods of control, prevention and eradication of infectious and parasitic diseases of domestic animals are discussed. Lecture, three hours.

430 Dairy Technology. 3 hours.
Prerequisite: Agriculture 140.
Fundamentals of dairy plant management; chemical and physical characteristics of dairy products; processing methods for milk, butter, ice cream, cheese and concentrated milk are presented. Lecture, two hours; laboratory, two hours.

431 Dairy Production. 3 hours.
Prerequisites: Agriculture 140 and 345.
Principles of nutrition and management and practical application to commercial dairy herds are emphasized.

438 Dairy Microbiology. 4 hours.
Prerequisites: Biology 207 or equivalent, or consent of instructor.
Microbiological principles are applied to production and processing of milk and milk products, identification, enumeration and control of microorganisms important in dairy products. Lecture, two hours; laboratory, four hours.

440 Livestock Selection Techniques. 3 hours.
Prerequisite: Agriculture 338.
Genetic and environmental factors involved in selecting beef cattle, swine, horses and sheep for breeding purposes and techniques of evaluating the economically important traits of prospective breeding animals are emphasized. Lecture, two hours; laboratory, two hours.

442 Beef Production. 3 hours.
Prerequisites: Agriculture 140 and 345.
History and importance of the beef cattle industry; programs and areas of production; selection, breeding, feeding and management; common diseases are included. Lecture, two hours; laboratory, two hours.

443 Physiology of Reproduction in Domestic Animals. 3 hours.
Prerequisite: Agriculture 140 or instructor's consent.
Endocrinology and physiology of reproductive systems; anatomical, physiological and biochemical basis of reproduction; factors affecting means of improving efficiency of reproduction, artificial breeding, synchronized estrus and related topics are presented. Lecture, two hours; laboratory, two hours.

444 Swine Production. 3 hours.
Prerequisites: Agriculture 140 and 345.
History and importance of the swine industry; programs and areas of production; selection, breeding, feeding and management; common diseases are stressed. Lecture, two hours; laboratory, two hours.

446 Animal Breeding. 3 hours.
Prerequisites: Agriculture 140 and Biology 148.
Application of genetic and statistical principles to breeding and improvement of farm animals; the role of selection in changing populations; effect of different mating systems upon improvement of farm animals are investigated. Lecture, two hours; laboratory, two hours.

448 Principles of Animal Nutrition. 3 hours.
Prerequisite: Agriculture 345.
Principles of nutrition basic to animal feeding; chemistry and physiology of nutrition; nutrient requirements for normal body functions; techniques involved in nutrition research; readings in current literature are presented. Lecture, three hours.

449 Laboratory Methods and Techniques in Animal Nutrition. 3 hours.
Prerequisites: Agriculture 448, Chemistry 222 or equivalent or instructor's consent.
Demonstration and practical experience in laboratory methods are utilized for determining major minerals and vitamins in feeds, proximate analysis of feeds, digestion and balance studies with laboratory animals, products of fermentation, feed residues and contamination. Lecture, one hour; laboratory, four hours.

533 Physiology of Lactation. 3 hours.

545 Advanced Ruminant Nutrition. 3 hours.

546 Advanced Animal Breeding. 3 hours.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT

360 Agricultural Economics. 3 hours.
An introduction to the private and public sector of the United States economy. The identification of the resources used in agriculture. Some elementary application of economic principles to resource use in agriculture. Lecture, three hours. (Fall, Spring)

361 Farm Management. 3 hours.
Prerequisite: Agriculture 360.
Organizing and managing farms; factors affecting farm earnings; resource allocation; combining farm enterprises, individual farm organization and farm management problem assignments and application of the principles of business to farming are stressed. Lecture, three hours.

362 Agricultural Marketing. 3 hours.
Prerequisite: Agriculture 360.
Included are principles and methods of marketing farm products; institutions performing the various functions in marketing specific commodities; market prices; marketing costs; elementary treatment of cooperative marketing. Lecture, three hours.

460 Agricultural Policy. 3 hours.
Prerequisite: Agriculture 360.
The principles underlying agricultural policy; the place of agriculture in the national economy; objectives of agricultural policy and the means of reaching them; appraisal of current and proposed agricultural programs; legislation for remedial economic action are presented. Lecture, three hours.

461 Advanced Farm Management. 3 hours.
Prerequisites: Agriculture 361 or instructor's consent.
Identification, analysis and solution of problems of farm organization and operation; how to evaluate and incorporate innovations into new or ongoing operations, case studies and field trips to situation farms in South Central Kentucky are emphasized. Lecture, two hours; laboratory, two hours.

463 Agricultural Finance. 3 hours.
Prerequisites: Agriculture 361 or instructor's consent.
Farm finance problems, credit institutions, capital requirements, investment decisions, budgeting techniques, operation of lending agencies and alternative means of acquiring capital are studied. Lecture, three hours.

482 Development of Agricultural Resources for Recreation. 3 hours.
Prerequisites: Upper division or instructor's consent.
Principles in developing physical facilities for various recreational enterprises are studied. Topics include enterprise selection, program planning, site selection, financing and construction of facilities. Lecture, three hours.

486 Agricultural Sales and Service. 3 hours.
Prerequisites: Senior standing or consent of instructor.
Exploration, investigation and application of principles and concepts of sales and service applied to agriculture. A credit and personal improvement course designed for agri-business and educators working with sales and service of agricultural inputs and products.

561 Agricultural Production Economics. 3 hours.

AGRICULTURAL EDUCATION

370 Introduction to Agriculture Education. 3 hours.
An analysis of the philosophical, psychological, and sociological foundations of education in American academic and vocational public education. Qualification, performance and general expectations of the agriculture teacher are stressed. Students must complete a pre-student teaching experience in the public schools. Periodic class trips are taken to observe various agriculture education departments. (Fall, Spring)

487 Methods in Teaching Vocational Agriculture. 3 hours.
Prerequisite: Ag/Sec Ed 370.
Experiences related to the teaching of vocational agriculture, further preparing the prospective teacher in supervised occupational experience programs, Future Farmers of America activities, classroom management, and general teaching techniques. Departments are occasionally visited. (First Bi-term/Fall, Spring)

488 Young Farmer and Adult Education in Agriculture. 4 hours.
Organization and program planning for classes in post high school vocational agriculture and technical programs for young and adult farmers are stressed. Departments and adult farmer education-related activities are visited to observe programs and adults. Lecture, 3 hours; laboratory 2 hours. (First Bi-term/Fall, Spring)

489 Special Problems in Agricultural Education. 1 to 3 hours.
Prerequisite: Acceptance for student teaching. May be repeated to a maximum of six credits.

490S Student Teaching. 8 hours.
Prerequisite: Agriculture/Sec Ed 370, 487, 488, Education 380, admission to Teacher Education and to Student Teaching.
Teaching experience in public school agriculture education department with both in-school and out-of-school groups. (Second Bi-term/Fall, Spring)

539 Seminar in Agriculture Education.
See Secondary Education 539.

583 Curriculum Development and Determining Content in Vocational Agriculture. 3 hours.

589 Special Problems in Agriculture Education. 1 to 3 hours.

AGRICULTURAL MECHANIZATION

100 Introduction to Farm Power. 3 hours.
The first in a sequence of courses concerning farm power. It is a study of internal combustion engine principles and the diagnosis, service and repair of farm gas engines and tractors. (Fall)

170 Introduction to Agricultural Engineering. 3 hours.
Fundamentals of engineering are applied to the agricultural industry, including electrical and mechanical power; implements and equipment. Lecture, three hours. (Fall, Spring)

174 Parts Management I. 3 hours.
Prerequisites: Agriculture 170 or permission of instructor.
The procedural techniques in the operation of a farm equipment parts department, emphasizing the use of parts books, job orders, stocking procedure and the use and handling of invoices. Also, techniques used in sales are studied. (Fall)

177 Farm Equipment Safety. 1 hour.
Prerequisites: Agriculture 100 or 170 or consent of instructor.
Principles and practices of agricultural machinery safety, including OSHA requirements. Lecture, laboratory, one hour; field trip. (Spring)

178 Electrical Systems. 2 hours.
Prerequisites: Agriculture 100 or 170 or consent of instructor.
The student will learn the basic components and principles of farm machinery ignition and electrical systems. The student will disassemble and learn the recommended testing procedures of these components and systems. Lecture and laboratory, two hours.

216 Plane Surveying. 3 hours.
Prerequisites: High School Algebra and Trigonometry. See ET 216.
Pre-forestry and Agriculture students should schedule in Fall semester.

274 Parts Management II. 3 hours.
Prerequisites: Agriculture 174 or permission of instructor.
Farm equipment parts departments, managerial techniques, physical facilities, stocking systems, inventory systems, parts merchandising and promotions are studied. (Fall)

275 Service Management. 3 hours.
Prerequisites: Agriculture 174 or permission of instructor.
Managerial techniques, customer relations, field service, pricing, warranty claims, credit and equipment appraisal are studied. Employer—employee relationship including wage structures, and employee benefits are considered. Field trips as needed.

276 Transmissions and Final Drives. 3 hours.
The student will study power transmission from the engine to the drive wheels of farm machinery. Both mechanical and hydraulic drive systems will be studied as used on combines, tractors, etc. In the laboratory the student will, by using recommended procedures, disassemble, study and reassemble transmissions and rear drive assemblies. Lecture and laboratory, four hours. (Fall)

278 Applied Hydraulics. 3 hours.
Prerequisite: Permission of instructor.
Principles, application, operation adjustment and maintenance of hydraulic units designed for farm and light industrial use are presented. Various lifts, steering systems, braking systems, transmissions and fluid motors are considered. (Spring)

371 Agricultural Mechanics. 3 hours.
Prerequisites: Agriculture 170 or consent of instructor.
Selection and use of basic equipment and materials for school and farm shop, theory and practice of welding, metal work, metallurgy, pipefitting, basic carpentry and other skills used in design, construction and repair of agricultural equipment and buildings are included. Lecture, two hours; laboratory, two hours. (Fall, Spring)

372 Farm Power—Electrical and Machinery. 3 hours.
Prerequisites: Agriculture 170, 370 or instructor's consent.
Application of the principles of electricity to farm motors and generators; selection of wire size and installation practices for rural buildings, safety regulations; economics of electrical power utilization for rural industry; electrical equipment are studied. Lecture, two hours; laboratory, two hours. Field trips as needed. (Spring)

373 Farm Power—Mechanical and Machinery. 3 hours.
Prerequisites: Agriculture 170, 370 or permission of instructor.
Particular emphasis is devoted to tractors and tractor equipment, principles of design; application of principles and maintenance of gasoline and diesel engines, including valves, carburetion, ignition, lubrication and hydraulics; application of soil-vehicle mechanics to traction. Lecture, two hours; laboratory, two hours. (Spring)

374 Farm Structures and Environment. 3 hours.
Prerequisite: Agriculture 170, 370 or permission of instructor.
The basic concepts of structural and environmental problems as they relate to agricultural buildings, analysis of materials and their selection for agriculture buildings are presented. Design of light-framed structures and the use of environmental control in livestock and product storage buildings, building codes and their effects on farm structures are reviewed. Field trips as needed. (Spring)

375 Diesel Engines. 3 hours.
Prerequisites: Agriculture 100 and 178 or 373 or permission of instructor.
The student will learn the basic principles of design and construction of diesel engines and their injection systems under actual operating conditions by running, testing (using dynamotor and diesel test stand), disassembling and reassembling components, systems and engines. Lecture and laboratory, four hours. (Fall)

470 Agricultural Materials Handling. 3 hours.
Prerequisites: Agriculture 170, 345, 421, 422 or permission of instructor.
The principles of operation, the functional analysis of and the design of agricultural handling systems from harvesting to the utilization of the crop are investigated. Conveyance, drying, sizing and mixing and sorting machines used for the handling of farm crops and animals are included. Field trips as needed. (Spring)

471 Farm Machinery. 3 hours.
Prerequisites: Agriculture 170, 370 or permission of instructor.
The design, principles, operation, selection and management of agricultural tillage and harvesting equipment are studied. Field trips as needed. (Fall)

HORTICULTURE

102 Indoor Plants. 1 hour.
Identification, cultural requirements, insects and diseases of indoor plants are discussed. Biological bases applicable to successful growing are presented. Lecture, one hour.

103 Home Vegetable Gardening. 1 hour.
Selection of suitable kinds and varieties of vegetables and their cultural requirements are discussed. Particular interest is given to the intensive production of vegetables in small plots and containers. Lecture, one hour.

104 Home Greenhouses. 1 hour.
Selection and operation of structures and equipment, selection and care of plant material for home greenhouses are discussed. Lecture, one hour.

312 Horticulture. 3 hours.
Prerequisites: Biology 148 and 248 or Biology 148 and Agriculture 110.
Emphasis is given to principles of growth and development of major horticultural plants, and special attention is paid to their management. Special consideration is given to major horticultural crops of Kentucky. Lecture, two hours; laboratory, two hours.

412 Modern Fruit Production. 3 hours.
Prerequisites: Agriculture 311 or 312 or permission of instructor.
A study of the adaption of fruits and varieties to edaphic and climatic conditions through interpretation of physiology, morphology and other fundamental sciences in terms of fruit trees and small fruits and their products. Pest control and economic importance will be emphasized. Lecture, two hours; laboratory, two hours.

413 Plant Propagation. 3 hours.
Prerequisites: Biology 248 or Agriculture 312 or instructor's consent.
Principles of plant propagation by seed and vegetative means such as bulbs, corms, cutting, layering and grafting; scion and stock relationship; stocks for fruit and ornamental plants; practices employed by nurseries in propagation of plants are included. Lecture and demonstration. Three hours.

415 Greenhouse Management. 3 hours.
Prerequisites: A plant science course or permission of instructor.
Structures, equipment and general techniques and procedures for commercial production of ornamental and vegetable plants in the greenhouse are studied. Lecture, three hours.

416 Commercial Floriculture I. 3 hours.
Prerequisites: Agriculture 415 or permission of instructor.
Cultural requirements and propagation of plants commonly grown during the fall season in commercial greenhouses are studied. Lecture, two hours; laboratory, two hours.

417 Commercial Floriculture II. 3 hours.
Prerequisites: Agriculture 415 or permission of instructor.
Cultural requirements and propagation of plants commonly grown during the spring season in commercial greenhouses are studied. Lecture, two hours; laboratory, two hours.

418 Ornamental Horticulture and Landscape Design. 3 hours.
Prerequisites: Agriculture 350 and 312 or permission of instructor.
Classification and identification of important herbaceous and woody ornamental plant species; plant characteristics in terms of landscape use; methods of selecting adapted materials; general principles of landscape design with emphasis on uses of ornamentals in residential and public landscaping and on preparation of planting plans are presented. Lecture, two hours; laboratory, two hours.

419 Vegetable Production. 3 hours.
Prerequisites: Agriculture 110 or Biology 148.
A study of the production and utilization of vegetable crops, with emphasis on environmental factors which influence growth and handling of vegetables.

GRADUATE COURSES

590 Experimental Design and Data Analysis. 3 hours.

597 Special Problems in Agriculture. 1-3 hours.

598 Graduate Seminar. 1 hour.

599 Research. 1-6 hours.

675 Advanced Topics in Agriculture. 1-3 hours.

699 Specialist Project. 1-6 hours.

DEPARTMENT OF BIOLOGY

THOMPSON COMPLEX, NORTH WING, ROOM 201

Professor Jeff Jenkins, Head

Professors: D. Bailey, T. Coohill, G. Dillard, L. Elliott, R. Hoyt, K. Nicely, R. Prins, D. Puckett, H. Shadowen, F. Toman, J. Winstead
Adjunct Professors: E. Beal, L. Lockwood
Associate Professors: S. Ford, L. Gleason, E. Hoffman, M. Houston, J. Skean, T. Yungbluth
Assistant Professors: R. Brown, I. Erskine, B. Ferrell, P. Malik
Instructor: J. McCurry

Students may pursue the study of biology at the undergraduate or graduate levels. The department offers structured programs leading to either a major or minor in biology at the undergraduate level. Graduate programs leading to the degrees of Master of Science (either plan "A" or "B"), Master of Arts in Education or Doctor of Philosophy (in cooperation with the University of Louisville) are available.

MAJOR IN BIOLOGY

The major in biology (reference number 617) requires a minimum of 30 semester hours in biology and leads to the Bachelor of Science degree. Undergraduate students majoring in biology are required to complete course work in biology and the requirements of a minor area, the major-minor combination to be at least 54 semester hours. Majors are expected to complete Biology 148-9, 158-9, 305-6, and 318-9. Majors are strongly advised to complete Biology 315, 327 and a course in physiology (Biology 330-1, 400 or 411-2) as a part of their program.

Since an understanding of the principles of mathematics, physics and chemistry is essential to the study of biology, majors are required to complete (1) two semesters of mathematics; 118 plus either 126, 115, 120 or 203; (2) two semesters of physics; 231 and 332 with labs (207 and 208); and (3) two semesters of chemistry; 120 and 222 with labs (121 and 223) or with approval of the biology advisor, 105 and 107. Depending upon the interests of the student, additional course work should be completed in mathematics, physics and chemistry. Such additional course work can be organized toward the goal of a double major.

AREA OF CONCENTRATION IN PSYCHOBIOLOGY

The area of concentration in psychobiology (reference number 590) requires a minimum of 54 semester hours and leads to a Bachelor of Science degree. A minimum of twenty-four hours must be taken in each department. Required courses are: Biology 148, 149, 195, 327, 330, 331, 411 and 412, Psychology 200 (100 conditionally acceptable), 201, 210, 380, 410 and 411, and three hours of Biology 399 or Psychology 490. At least 15 additional hours must be selected from Biology 318-9, 301, 324, 432, 446, 447, 464, 475 and Psychology 400, 412, 440, 441, 443 and 450. Associated requirements include: Mathematics 118, Chemistry 120, 121, 222, 223 and 309 (or 446 or 340, 341, 342 and 343) and Biophysics 231 and 332.

MINOR IN BIOLOGY

The minor in biology (reference number 326) requires a minimum of 18 semester hours in biology. Typically, this consists of Biology 148-9, plus any two of the following courses, 158-9, 305-6, or 318-9, with at least 6 of the remaining hours from courses numbered 300 or above. Biology minors, who wish to be certified to teach biology at the public school level, must complete a minimum of 21 hours for certification. Minors are also required to complete the same chemistry courses required of biology majors.

Ordinarily, courses offered through the Department of Biology for non-science majors are not applicable toward the fulfillment of the requirements for the major or minor in biology. In case of doubt concerning the applicability of a course to the major or minor program, consultation with the faculty advisor is urged.

INTERDEPARTMENTAL PROGRAMS

Students interested in Wildlife Ecology and Conservation or Psychobiology should contact either the Department of Biology or the appropriate associated department (Agriculture or Psychology) for specific details.

Numerous other biologically oriented specialized programs are available such as Biochemistry, Biophysics, Pre-Medicine, Pre-Dentistry, etc. Specific details of these programs are listed in this bulletin.

GRADUATE DEGREE PROGRAMS

Students wishing to undertake graduate study in biology should consult the Graduate College Bulletin for detailed information concerning the various programs available. In general, the Master of Science program emphasizes specialization in a restricted area of biology. The Plan "A" program is designed primarily for those who wish to continue study at the Ph.D. level and requires independent investigation of an original nature leading to the writing of a thesis.

The Plan "B" program is designed primarily for those who wish to achieve a higher level of technical competence prior to professional employment and does not require a thesis. The Master of Arts in Education (major in biology) program places less emphasis upon specialization and more upon breadth in the field of biology. An independent research project is optional for the MA in Education program. A cooperative graduate program leading to the Doctor of Philosophy degree (specialization in aquatic biology) is administered by the departments of biology at Western Kentucky University and the University of Louisville.

Ordinarily, admittance of a student to graduate study in biology requires a 2.5 overall grade point average with superior performance in biology and related sciences. In addition, the prospective graduate student is expected to have completed an undergraduate course program equivalent to the course work required of students majoring in biology at Western Kentucky University and to have completed at least one course in organic chemistry.

Teaching and research assistantships are available to qualified graduate students.

TECH AQUA BIOLOGICAL STATION

Western Kentucky University is a member of the Tech Aqua Development Consortium which operates a biological station on Center Hill Reservoir near Cookeville, Tenn. The station offers two five-week sessions in the summer. Interested students should contact Dr. H. E. Shadowen, Department of Biology.

COURSES OF INSTRUCTION

*Not applicable toward a major or minor in biology without prior approval of the Department Head.

***118 Electron Microscopy.** 2 hours.
Prerequisites: High School junior or senior and background in the sciences with consent of the instructor.
A course in the practical aspects of electron microscopy including techniques for specimen preparation and photography and operation of the electron microscope. (Every Semester)

***131 Anatomy and Physiology.** 4 hours.
A basic anatomy and physiology course designed for students in physical education, home economics and health science careers. Emphasis is placed upon the concept of homeostasis and relationship of structure and function. Lecture, three hours; laboratory, two hours. (Every Semester and Summer)

148 Principles of Biology. 3 hours.
A lecture series emphasizing the unity of living organisms from cellular, organismal and populational points of view. Three lecture hours per week. May be taken with or without the correlated laboratory course, Biology 149, dependent upon the student's curricular requirements. (Every Semester and Summer)

149 Principles of Biology Laboratory. 1 hour.
Corequisite or Prerequisite: Biology 148.
A laboratory course correlated with Biology 148. Two laboratory hours per week. (Every Semester and Summer)

***156 General Biology.** 3 hours.
A survey of the protists, plants and animals with emphasis on phylogenetic relationships, reproduction and classification. Three lecture hours per week. May be taken with or without the correlated laboratory course, Biology 157. (Every Semester and Summer)

***157 General Biology Laboratory.** 1 hour.
Corequisite: Biology 156.
A laboratory course correlated with Biology 156. Two laboratory hours per week. (Every Semester and Summer)

158 Protistology. 2 hours.
Prerequisite: Biology 148.
A lecture series emphasizing the taxonomy, morphology and phylogeny of prokaryotes, protozoa, fungi and certain algal groups. Two lecture hours per week. Must be taken concurrently with Biology 159. (Every Semester)

159 Protistology Laboratory. 1 hour.
Corequisite: Biology 158.
A laboratory course correlated with Biology 158. Two laboratory hours per week. (Every Semester)

***195 Human Anatomy.** 3 hours.
An intensive study of the general characteristics, origin, classification, embryology and organ systems of the human. Three lectures per week. (Every Semester)

209 Introductory Agricultural Microbiology. 4 hours.
Prerequisites: Biology 148, 149, and one semester of Chemistry.
An introductory study of microorganisms and some of their important roles in modern agriculture. Lecture, three hours; laboratory, two hours. (Every Semester)

***300 Genetics and Human Affairs.** 3 hours.
A course in basic hereditary principles for non-science majors. Emphasis is placed upon the application of genetic information to the life of man, including its biological, medical, social and evolutionary implications. Three lecture hours per week (Spring and Fall)

***301 Ecology and Human Affairs.** 3 hours.
A series of lectures designed for non-science majors to aid them in the formulation of an understanding and appreciation of their natural environment. Included are discussions on plant-animal and organism-environment interactions, pollution, conservation, human population dynamics and the aesthetic appreciation of nature. Three lecture hours per week. (Spring)

***302 Human Biology.** 3 hours.
A survey of body systems with special emphasis on human reproduction, embryological development and infectious diseases. Designed for non-biology majors. Three lecture hours per week. (Fall)

***304 Biochemistry for the Health Sciences.** 3 hours.
See Biochemistry.

305 Botany. 2 hours.
Prerequisites: Biology 148, 149.
A lecture series emphasizing the taxonomy, morphology, anatomy and phylogeny of higher plants. Two lecture hours per week. Must be taken concurrently with Biology 306. (Every Semester)

306 Botany Laboratory. 1 hour.
Corequisite: Biology 305.
A laboratory course correlated with Biology 305. Two laboratory hours per week. (Every Semester)

307 General Microbiology. 3 hours.
An introduction to microorganisms and their importance to man (for non-biology majors). Approximately one-third of the course is devoted to each of the three major areas of microbiology: organismal, environmental and medical. Lecture, three hours per week. (May be taken with or without the correlated laboratory course, Biology 308, dependent upon the student's curricular requirements.) (Every Semester and Summer)

308 General Microbiology Laboratory. 1 hour.
Prerequisite or corequisite: Biology 307.
A laboratory course correlated with Biology 307. Two laboratory hours per week. (Every Semester and Summer)

309 Bacteriology. 2 hours.
Prerequisites: Biology 158 and 159 or consent of instructor.
A study of morphological, cultural and biochemical characteristics of important groups of bacteria. Two lecture hours per week. Must be taken concurrently with Biology 310. (Spring and Fall)

310 Bacteriology Laboratory. 1 hour.
Corequisite: Biology 309.
A laboratory course correlated with Biology 309. Two laboratory hours per week. (Spring and Fall)

311 Infection and Immunity. 3 hours.
Prerequisites: Biology 158 and 159 or consent of instructor.
A lecture series emphasizing various aspects of the host-parasite relationship encountered in infectious diseases of man including selected viral, bacterial, protozoal and fungal diseases. Three lecture hours per week. (Fall, odd numbered years)

315 Ecology. 4 hours.
Prerequisite: Six hours of Biology.
A study of the fundamental principles of the ecology of plants and animals. Lecture, three hours; laboratory, two hours. (Every Semester)

317 Plant Pathology. 3 hours.
Prerequisites: Biology 305, 306.
Symptoms, causes and control of some of the more representative plant diseases. Methods of control will be stressed. Lecture, two hours; laboratory, two hours. (Spring)

318 Zoology. 2 hours.
Prerequisites: Biology 148, 149.
A lecture series emphasizing the taxonomy, morphology and phylogeny of higher animals. Two lecture hours per week. Must be taken concurrently with Biology 319. (Every Semester)

319 Zoology Laboratory. 1 hour.
Corequisite: Biology 318.
A laboratory course correlated with Biology 318. Two laboratory hours per week. (Every Semester)

321 Comparative Anatomy. 4 hours.
Prerequisites: Biology 318, 319.
A comparative study of the morphology and relationships of the organ systems of some typical vertebrates. Lecture, two hours; laboratory, four hours. (Fall)

323 Embryology. 4 hours.
Prerequisites: Biology 318, 319.
Studies in gametogenesis, fertilization, early embryology, organogenesis and anomalies. Lecture, two hours; laboratory, four hours. (Spring)

324 Histology. 4 hours.
Prerequisites: Biology 318, 319.
A study of the microscopic structure of vertebrate tissues and organs. Lecture, two hours; laboratory, four hours. (Spring)

325 Entomology. 3 hours.
A study of the structure, identification and control of insects. Lecture, two hours; laboratory, two hours. (Fall; Summer of even years)

326 Ornithology. 3 hours.
Prerequisites: Biology 156 or 318, 319.
A study of the general characteristics, economic importance, history, structure, classification and identification of birds. Lectures and field trips. (Spring; Summer of odd numbered years)

327 Genetics. 3 hours.
Prerequisites: Biology 148 and 305, 306, or 318, 319.
A study of the fundamental principles of heredity as applied to plants and animals. Three lecture hours per week. (Every Semester and Summer)

328 Immunology. 3 hours.
Prerequisites: Biology 148, 149 or equivalent.
An introductory study of the vertebrate immune system and its relationship to organismic integrity. Lecture, two hours; laboratory, two hours. (Spring)

329 Basic Pathology of Disease Process. 3 hours.
Prerequisites: Biology 131, Chemistry 109, and Health and Safety 290.
An introductory study of the functional changes that characterize a disease syndrome and the relationship of these to diagnosis, treatment, care, and prognosis. (Open to Medical Records students only). Three lecture hours per week. (Fall)

330 Animal Physiology. 3 hours.
Prerequisites: Biology 148 and 195 or 318, 319.
A course dealing with the functions of the animal body systems. Three lecture hours per week. Must be taken concurrently with Biology 331. (Every Semester and Summer)

331 Animal Physiology Laboratory. 1 hour.
Corequisite: Biology 330.
A laboratory course correlated with Biology 330. Three laboratory hours per week. (Every Semester and Summer)

333 Pathophysiology I: Mechanisms of Disease. 3 hours.
Prerequisite: Biology 131 or equivalent.
A study of the processes and mechanisms of disease and subsequent responses to disease in the human. Lecture, three hours. (Fall)

335 General Biophysics. 4 hours.
See Biophysics.

348 Local Flora. 3 hours.
Prerequisites: Biology 148 or consent of instructor.
A course emphasizing the identification of the local species of spring and/or summer flowering plants. In lecture, basic taxonomic principles, phylogeny and vegetational associations will be considered. Lecture, one hour; laboratory, four hours. (Spring and Summer)

399 Undergraduate Seminar. 1 hour.
Prerequisite: Junior or senior standing.
Student presentation and discussion of selected topics in biology with faculty direction. (Every Semester)

399 Research Problems in Biology. 1 to 3 hours.
Prerequisites: Biology 148 and consent of research project director.
A study for undergraduates involving a research project under faculty supervision. (Every Semester and Summer)

400 Plant Physiology. 3 hours.
Prerequisites: Biology 305, 306 and two semesters of chemistry.
A study of the functioning of plant systems. Lecture, two hours; laboratory, two hours. (Fall of odd numbered years)

404 Techniques and Theory of Electron Microscopy. 3 hours.
Prerequisite: Science background (Biology 411 recommended).
A course in the fundamentals of electron microscopy including basic theory, techniques for specimen preparation and photography and operation of the electron microscope. An independent research project is required which necessitates interpretation of data obtained by using the electron microscope. Lecture, two hours; laboratory, two hours. (Every Semester)

407 Virology. 3 hours.
Prerequisites: Biology 158 and 159 or consent of instructor.
A study of bacterial, animal and plant viruses with special emphasis on the chemistry and replication of bacterial viruses. Three lecture hours per week. (Spring of even years; Summer of odd numbered years)

408 Invertebrate Zoology. 4 hours.
Prerequisites: Biology 318, 319.
A survey of the phyla of invertebrate animals, including their taxonomy, morphology, physiology, development and evolution. Lecture, two hours; laboratory, four hours. (Spring of odd numbered years)

411 Cell Biology. 3 hours.
Prerequisites: Biology 148, 149 and organic chemistry.
A lecture series emphasizing the morphological and chemical make-up of cells, the physical and chemical properties of the cell and the modern techniques for investigation of cellular functions. Three lecture hours per week. Cell Biology Laboratory (Biology 412) is optional. (Every Semester and Summer)

412 Cell Biology Laboratory. 1 hour.
Pre/Corequisite: Biology 411.
A laboratory course correlated with Biology 411. Two laboratory hours per week. (Every Semester and Summer)

416 Systematic Botany. 4 hours.
Prerequisites: Biology 348 or consent of instructor. A study of variation, phylogeny and classification of flowering plants including consideration of the major processes of plant speciation and the application of modern biosystematic procedures for obtaining and utilizing taxonomic data. Lecture, two hours; laboratory, four hours. (Summer of even years)

418 Mycology. 4 hours.
Prerequisites: Biology 158, 159.
A comparative morphological and physiological study of the fungi. Lecture, three hours; laboratory, two hours. (Fall of odd numbered years)

419 Freshwater Algae. 3 hours.
Prerequisites: Biology 305, 306.
A study of the morphology and systematics of freshwater algae with emphasis upon the regional flora. Lecture, one hour; laboratory, four hours. (Spring of even years)

428 Population Genetics. 3 hours.
See Department of Agriculture.

431 Radiation Biophysics. 4 hours.
See Biophysics.

432 Advanced Animal Physiology. 3 hours.
Prerequisites: Biology 330, 331.
A course involving in-depth studies of selected systems and topics in physiology. Emphasis is placed on the biophysical approach. Three lecture hours per week. (Spring)

433 Pathophysiology II: Manifestations of Disease. 3 hours.
Prerequisite: Biology 333.
A study of the manifestations of disease and the underlying physiological causes and interrelationships. Three lecture hours per week. (Fall)

436 Biophysics Seminar. 1 hour.
See Biophysics.

446 Biochemistry. 3 hours.
See Biochemistry.

447 Biochemistry Laboratory. 2 hours.
See Biochemistry.

456 Ichthyology. 4 hours.
Prerequisites: Biology 318, 319 and consent of instructor.
A survey of the fishes of the world, their physiology, structure, behavior and ecology. Special emphasis will be placed upon the collection and identification of freshwater species of Kentucky. Lecture, two hours; laboratory, four hours. (Fall of odd numbered years)

458 Fishery Biology. 3 hours.
Prerequisite: Consent of instructor.
A course dealing with various biological aspects of populations of freshwater fishes. Emphasis will be directed toward reproduction and development, food and feeding habits, age and growth, population dynamics, pollution effects, culture techniques and fish surveys. Lecture, two hours; laboratory, two hours. (Spring of odd numbered years)

459 Mammalogy. 3 hours.
Prerequisites: Biology 318, 319.
A comprehensive study of the taxonomy, life history and ecology of the mammals. The laboratory work will consist of studies in the field as well as the collection and study of specimens in the laboratory. Lecture, two hours; laboratory, two hours. (Spring of odd numbered years)

460 Parasitology. 4 hours.
Prerequisites: Biology 318, 319.
A study of the morphology, physiology, life histories, control and economic significance of representative species. Lecture, two hours; laboratory, four hours. (Fall)

462 Bioinorganic Chemistry. 3 hours.
See Biochemistry.

464 Endocrinology. 3 hours.
Prerequisites: Biology 148 and 195 or 318, 319. Biology 330 recommended.
A comprehensive study of the structure and function of the endocrine glands, and their role in physiological communication and regulation. (Spring, even years)

465 Endocrinology Laboratory. 1 hour.
Corequisite: Biology 464.
A laboratory course correlated with Biology 464. (Spring, even years)

467 Biochemistry II. 3 hours.
See Biochemistry.

470 Pathogenic Microbiology. 4 hours.
Prerequisites: Biology 309, 310, or consent of instructor.
A study of the organisms causing disease with emphasis on bacteria. The course will survey pathogenic bacteria, viruses, rickettsiae, fungi and protozoa. Lecture, three hours; laboratory, two hours. (Fall)

472 Food Microbiology. 4 hours.
Prerequisites: Biology 158, 159 or 307, 308.
A study of the preservation, fermentation and spoilage of foods including a study of food and milk microbiology. Lecture, two hours; laboratory, four hours. (Spring of even years)

475 Selected Topics in Biology. 1 to 3 hours.
Prerequisite: Consent of instructor.
A consideration of special topics to acquaint the advanced student with significant problems and developments of current interest in biology. (Every Semester and Summer)

477 Morphology of Non-Vascular Plants. 4 hours.
Prerequisites: Biology 158, 159 and 305, 306.
A consideration of the structure, development and phylogenetic relationships of the algae, fungi and bryophytes. Lecture, three hours; laboratory, two hours. (Fall of even years)

478 Morphology of Vascular Plants. 4 hours.
Prerequisites: Biology 305 and 306 or 477.
A consideration of the structure, development and phylogenetic relationships of the primitive vascular plants, gymnosperms and angiosperms. Lecture, two hours; laboratory, four hours. (Spring of odd numbered years)

485 Field Biology. 3 hours.
Prerequisites: Major or minor in the life sciences and consent of instructor.
An intensive field experience on a specific biological topic, consisting of a two-week camping field trip to a geographical area of biological interest preceded by a four-day introductory session and followed by a one-day evaluation session. (Summer)

491 Data Analysis and Interpretation. 3 hours.
See Department of Agriculture.

GRADUATE COURSES

501 Biological Perspectives I. 3 hours.
502 Biological Perspectives II. 3 hours.
505 Biogeography. 3 hours.
511 Limnology. 4 hours.
515 Plant Ecology. 4 hours.
516 Investigations in Biology. 1 to 3 hours.
518 Aquatic Mycology. 4 hours.
527 Advanced Genetics. 4 hours.
540 Algal Systematics and Ecology. 4 hours.
550 Aquatic Invertebrates. 3 hours.
560 Advanced Parasitology. 4 hours.
562 Intermediary Metabolism. 3 hours.
563 Enzymology. 3 hours.
564 Enzymology Laboratory. 1 hour.
570 Immunology. 4 hours.
580 Plant Biochemistry. 3 hours.
591 Aquatic Biology. 4 hours.
592 Freshwater Ecology. 4 hours.
598 Graduate Seminar. 1 hour.
599 Thesis Research. 1 to 6 hours.
600 Internship in College Teaching. 1 hour.
675 Advanced Topics in Biology. 1 to 3 hours.

DEPARTMENT OF CHEMISTRY

THOMPSON COMPLEX, CENTRAL WING, ROOM 445

Professor Laurence J. Boucher, Head

Professors: R. Farina, N. Holy, J. Reasoner, C. Wilkins, G. Wilson
Visiting Professor: F. Byrne
Associate Professors: J. Chamberlin, J. Craig, D. Hartman, C. Henrickson, N. Hunter, H. Leopold, E. Pearson, J. Riley, L. Shank, C. Wilkerson
Assistant Professor: L. Byrd

The Department of Chemistry prepares students for teaching positions, for positions in industrial and governmental laboratories, and for additional training in chemistry at the graduate level. Courses suitable for the needs of various groups of students whose interest requires a more limited knowledge of chemistry are also offered.

General education requirements for students majoring outside the sciences are satisfied by Chemistry 101, 109, or 301 where only one semester of chemistry is needed and by the sequences 105-106, 107-108 or 120-121, 222-223 where two semesters of chemistry are desired. Chemistry 102 (laboratory to accompany Chem 101) is not necessary to satisfy general education requirements but is often desired by students taking Chemistry 101.

Biochemistry courses (Chem 446, 447, 462, and 467) may be taken as electives toward a major or minor in chemistry. Biochemistry is strongly recommended for pre-medical and pre-dental students, and for Biology majors desiring a second major in Chemistry.

Chemistry as the major or minor field is available under the regular and teacher certification programs.

MAJOR IN CHEMISTRY

The major in chemistry (reference number 623) requires a minimum of 30 semester hours and leads to the Bachelor of Science degree. Western is on the approved list of the Committee on Professional Training of the American Chemical Society. For certification by this committee of the completion of minimum standards for the B.S. degree in chemistry, the sequence of courses should be as follows:

Freshman year: Chem 120-121, 222-223; Math 118 and 126.
Sophomore year: Chem 330, 340 and 341; Math 227; Physics 205, 206, 207 and 208.
Junior year: Chem 342, 343, 420, 450, 451, 452, 453.
Senior year: Chem 399 (3 hours), Chem 435 and 3 semester hours of electives selected from chemistry courses numbered above 420.

In addition, a minimum of one year of German is recommended. It is important that physical chemistry, Chem 450, 451, 452, and 453 be taken in the junior year since Chem 452 is a prerequisite or corequisite for most courses numbered above 400.

Qualified students may omit Math 118 and start with Math 126. Students whose high school preparation in mathematics makes them ineligible for Math 118 should consult their academic advisor for the proper first course in mathematics. It is strongly recommended that students in this program take Math 307 and 327 in addition to the above Math requirements.

Professional chemistry majors who do not wish the American Chemical Society program should take the following courses: Chem 120-121, 222-223, 330, 340-341, 342-343, 450-451, 452-453, 399, either 432 or 435, and 420.

The minimum major in chemistry is as follows: Chem 120-121, 222-223, 330, at least one semester of organic chemistry, one semester of inorganic chemistry and one semester of physical chemistry with additional courses numbered above 300 to make a total of 30 semester hours.

MINOR IN CHEMISTRY

The minor in chemistry (reference number 335) requires

a minimum of 18/21 hours. For a minimum minor a student must have Chem 120-121, 222-223, 330 and courses numbered above 300 to make a total of at least 18 semester hours.

For a minor under the teacher certification curriculum, a student must have Chem 120-121, 222-223, 330, 412-413 and additional courses numbered above 300 to make a total of at least 21 semester hours.

SEMI-MAJOR IN CHEMISTRY

A semi-major in chemistry is offered for those students who wish to specialize in Junior High/Middle School science. The minimum requirements under this program are Chem 105-106, 107-108 and 470. For additional information concerning the Junior High/Middle School science program see the description under the College of Education.

GRADUATE DEGREE PROGRAMS

Graduate programs leading to the Master of Science and Master of Arts in Education with a major in Chemistry are available in the Department of Chemistry. Each year a number of graduate teaching assistantships are available for qualified graduate students. For additional information see the Graduate College Bulletin or contact the Dean of the Graduate College.

A cooperative graduate program leading to the Doctor of Philosophy with specialization in Spectroscopy and Reactions of Free Radicals is administered by the departments of chemistry at Western Kentucky University and the University of Louisville. Interested students may obtain complete information about the program from Dr. Laurence J. Boucher, Head, Department of Chemistry, Western Kentucky University, or from the Chairman of the Department of Chemistry at the University of Louisville, Louisville, Kentucky.

COURSES OF INSTRUCTION

101 Introduction to Chemistry. 3 hours.
A one semester terminal course which can be used for general education requirements in the science field for non-science majors and minors. It does not count toward a major or minor in chemistry nor does it satisfy the requirements for certain Home Economics and Agriculture majors. Lecture and recitation amount to three periods per week. (Every Semester)

102 Introduction to Chemistry Laboratory. 1 hour.
An optional laboratory to accompany Chemistry 101. Satisfies the natural science laboratory requirement of the teacher certification program. Lecture and laboratory amount to two periods per week. (Every Semester)

105 General Chemistry I. 3 hours.
The first half of a one-year course predominantly for majors in Agriculture and Home Economics. Also suitable for non-science majors desiring a full year sequence in chemistry. It does not count toward a major or a minor in chemistry except for those who complete the course with a superior grade and obtain permission to go into Chemistry 222-223. Chemistry 106, the accompanying laboratory, must be taken concurrently with Chemistry 105 in order for a final grade to be received in either course. Course has three lecture and recitation periods each week. (Every Semester)

106 General Chemistry Laboratory I. 1 hour.
Laboratory to accompany Chemistry 105. Lecture and laboratory amount to three periods per week. (Every Semester)

107 General Chemistry II. 3 hours.
Prerequisite: Chemistry 105 and 106.
A continuation of Chemistry 105 with a major portion of the course devoted to organic chemistry which ends the one-year course for non-science majors. It does not count toward a major or minor in chemistry. Chemistry 108 must be taken concurrently with Chemistry 107 in order for a final grade to be received in either course. Course has three lecture and recitation periods per week. (Every Semester)

108 General Chemistry Laboratory II. 1 hour.
Prerequisite: Chemistry 105 and 106.
Laboratory to accompany Chemistry 107, a major portion of the course deals with experiments in organic and biochemistry. Lecture and laboratory amount to three hours per week. (Every Semester)

109 Chemistry for the Health Sciences. 4 hours.
A lecture course designed to emphasize the practical aspects of inorganic, organic and biochemistry as related to human health. The course is offered specifically for students in the Allied Health programs, but is also recommended for students in Physical Education, Recreation, Health and Safety and other disciplines dealing with human health. It does not count toward a major or minor in chemistry, but does satisfy general education requirements. No laboratory accompanies this course but for students desiring laboratory experience Chemistry 102 is recommended. Lecture amounts to four periods per week. (Every Semester)

118 Preliminary College Chemistry. 3 hours.
A preparatory course for College Chemistry specifically for students whose ACT scores in natural science and/or mathematics, or whose Chemistry Placement Exam scores would indicate marginal success in Chemistry 120. The course may also be selected by students whose high school mathematics and science preparation has become outdated. This course does not count toward a major or minor in chemistry. No laboratory accompanies this course. Lecture and recitation amount to three periods per week. (Every Semester)

120 College Chemistry I. 3 hours.
Corequisite: Math 118 or consent of instructor.
The beginning course in chemistry for science majors and minors, it is also satisfactory for general education requirements for non-science majors and minors. Covering the first half of the standard first year chemistry course it must be taken concurrently with Chemistry 121 in order for a final grade to be received in either course. It is recommended that high school chemistry and a strong high school mathematics background precede this course. Lecture and recitation amount to three periods per week. (Every Semester)

121 College Chemistry Laboratory I. 2 hours.
Laboratory to accompany Chemistry 120. One third of each meeting is spent reviewing material from the lecture and the remaining time is used to carry out laboratory investigations. Meets three hours once each week. (Every Semester)

222 College Chemistry II. 3 hours.
Prerequisite: Chemistry 120-121 and Math 118.
A continuation of the first year course in chemistry for science majors and minors. Also satisfactory for general education requirements for non-science majors and minors. Course must be taken concurrently with Chemistry 223 in order for a final grade to be received in either course. Lecture and recitation meet three periods per week. (Every Semester)

223 College Chemistry Laboratory II. 2 hours.
Prerequisite: Chemistry 120-121.
Laboratory to accompany Chemistry 222. A major portion of the course is devoted to semimicro qualitative inorganic analysis. Lecture and laboratory meet once each week for four hours. (Every Semester)

301 Consumer Chemistry. 3 hours.
Prerequisites: High school chemistry or consent of instructor.
For non-science majors, junior standing or consent of instructor. A one semester course which involves a study of some basic principles of chemistry with emphasis on the role that chemistry plays in our everyday lives. Topics discussed will include nuclear chemistry, agricultural chemistry, food processing and food additives, home products, drugs, pollution, comparative pricing and economics and use of various chemical products. The course is offered as a general education chemistry course and will not satisfy minimum requirements toward a major or minor in chemistry.

304 Biochemistry for the Health Sciences. 3 hours.
See Biochemistry.

309 Fundamentals of Organic and Biochemistry. 4 hours.
Prerequisites: Chem. 107 and 108. (Chem. 120-222 are not suitable prerequisites).
Brief treatment of the following topics: oxidation-reduction, dicarboxylic acids, polymers, pH buffers, carbohydrates, proteins and lipids and their metabolism, nucleic acids, photosynthesis, vitamins and environmental topics. While specifically for dietetics and environmental science students, this course is applicable for pre-physical therapy and certain agriculture and biology majors. The course does not count toward a major or minor in chemistry. Lecture and recitation meet four periods per week. (Spring)

314 Introductory Organic Chemistry. 5 hours.
Prerequisite: Chemistry 222-223.
A brief survey course primarily for various pre-professional and science area curricula requiring one semester of organic chemistry. Lecture and recitation meet four periods and laboratory three periods per week. (Every Semester)

320 Principles of Inorganic Chemistry. 3 hours.
Prerequisite: Chemistry 222-223.
A treatment of the usual topics in theoretical inorganic chemistry presented at a level not requiring the calculus. Not acceptable for ACS-program students who should take Chemistry 420. Lecture and recitation of three periods per week. (Fall)

330 Quantitative Analysis. 5 hours.
Prerequisite: Chemistry 222-223.
A study of the common techniques and theory of gravimetric, volumetric, electrochemical, and optical methods of analysis. Lecture meets three periods and lab meets six periods each week. (Every Semester)

340 Organic Chemistry I. 3 hours.
Prerequisite: Chemistry 222-223 and concurrently with Chemistry 341.
The first half of the standard one-year course for chemistry majors. Discussion includes various organic mechanisms and preparations. The entire sequence of Chem. 340-341, 342-343 should be completed. If only one semester of organic chemistry is desired, Chemistry 314 should be taken. Lecture and recitation meet three periods per week. (Every Semester)

341 Organic Chemistry Laboratory I. 2 hours.
Prerequisite: Chemistry 222-223 and concurrently with Chemistry 340.
Laboratory work includes studies of typical organic reactions and preparations. Laboratory and lecture amount to six periods per week. (Every Semester)

342 Organic Chemistry II. 3 hours.
Prerequisite: Chemistry 340-341 and concurrently with Chemistry 343.
A continuation of Chemistry 340. Lecture and recitation meet three periods per week. (Every Semester)

343 Organic Chemistry Laboratory II. 2 hours.
Prerequisites: Chemistry 340-341 and concurrently with 342.
Includes studies of typical organic reactions and an introduction to qualitative organic analysis. Lecture and laboratory amount to six periods per week. (Every Semester)

399 Research Problems in Chemistry. 1-3 hours.
Prerequisite: Chemistry 452-453.
Special research assignments in accord with the interest of the student. Laboratory amounts to a minimum of three periods per week for each hour of credit. (Every Semester)

412 Introduction to Physical Chemistry. 4 hours.
Prerequisite: Chemistry 222-223 and Math 118.
A study of the chemical principles involved in thermodynamics, kinetics, equilibrium and other selected topics using biological examples. Specifically for secondary education majors and those students not qualifying for the Chem 350-352 sequence. Not acceptable for the ACS-program students. Lecture and recitation meet four times per week. (Spring)

413 Introductory Physical Laboratory. 1 hour.
Prerequisite: Chemistry 330, Math 118 and concurrently with Chemistry 412.
A laboratory to accompany Chem 412 which includes experiments on thermochemistry, reaction rates and equilibrium studies. Laboratory amounts to three periods per week. (Spring)

420 Inorganic Chemistry. 3 hours.
Prerequisite: Chemistry 452-453 or concurrently with 452-453.
A study of such topics as atomic structure, molecular structure, bonding theory, ionic substances, electron deficient compounds, acid-base theory and coordination chemistry. Lecture and recitation meet three periods per week. (Spring)

432 Modern Methods of Chemical Analysis. 4 hours.
Prerequisite: Two semesters of chemistry.
A study of the methods and instrumentation used in modern chemical analysis. The course will emphasize the applications of modern methods of analysis rather than the theory behind such methods. The course is not acceptable for the ACS-program students who should taken Chemistry 435. This course does not meet requirements for the M.S. degree in Chemistry. Lecture meets two periods and lab meets 6 periods each week. (Offered in the spring semester of odd numbered years.)

435 Analytical Chemistry. 4 hours.
Prerequisite: Chemistry 452-453.
A course in modern instrumental methods of analysis including spectrophotometric, electroanalytical and chromatographic techniques. Lecture and recitation meet two periods and laboratory six periods per week. (Fall)

446 Biochemistry. 3 hours.
See Biochemistry.

447 Biochemistry Laboratory. 2 hours.
See Biochemistry.

450 Physical Chemistry I. 3 hours.
Prerequisites: Chemistry 222-223, Math 227, Physics 206 or 202 and concurrently with Chemistry 451.
A study of theoretical chemistry, including such topics as gaseous state, solid state, liquid state, thermodynamics, thermochemistry and phase and chemical equilibria. Lecture and recitation meet three periods per week. (Fall)

451 Physical Chemistry Laboratory I. 1 hour.
Prerequisites: Chemistry 330 and concurrently with Chemistry 450.
A laboratory to accompany Chemistry 450 and includes experiments on states of matter, colligative properties, thermochemistry, thermodynamics and equilibria. Laboratory meets three periods per week. (Fall)

452 Physical Chemistry II. 3 hours.
Prerequisite: Chemistry 450-451 and concurrently with Chemistry 453.
A continuation of Chemistry 450 including studies of kinetics, atomic and molecular structure, theory of chemical bonding, electromotive force and selected topics. Lecture and recitation meet three periods per week. (Spring)

453 Physical Chemistry Laboratory II. 1 hour.
Prerequisite: Concurrently with Chemistry 452.
A laboratory to accompany Chemistry 452 and includes experiments on chemical kinetics, spectroscopy and molecular structure, electrochemistry and mass spectroscopy. Laboratory meets three periods per week. (Spring)

462 Bioinorganic Chemistry. 3 hours.
Prerequisites: Chemistry 314 or equivalent.
This course is a study of the coordinating properties and reactivity of metal ions in living organisms. Metal ion toxicity and detoxification, clinical uses of metal chelates in biological systems and functions of various metalloenzymes will be discussed. Lecture and recitation meets three periods per week. (Fall)

467 Biochemistry II. 3 hours.
See Biochemistry.

470 Chemistry for the "Middle School". 4 hours.
Prerequisites: Chemistry 108 or 223 or consent of instructor.
A study of the chemical theories and principles which are involved in the typical middle school science curricula. The emphasis of the course will be the applications of chemistry in everyday life situations. May be used as an elective, but does not count towards a major or minor in chemistry for the secondary education student. Lecture and laboratory amount to six periods per week. (On Demand)

475 Selected Topics in Chemistry. 1-3 hours.
Prerequisite: Consent of the instructor.
Special topics are presented to acquaint advanced students with significant problems and developments of current interest in the fields of analytical, biological, inorganic, organic, physical and polymer chemistry. The course may be repeated for credit provided topics differ. (Every Semester)

476 Advanced Laboratory Investigations in Chemistry. 2 hours.
Prerequisite: Consent of the instructor.
A course for advanced students involving assigned laboratory work in the fields of analytical, biological, inorganic, organic, or physical chemistry. Typical procedures and experiments are those involving the synthesis, characterization, and identification of various chemical compounds, using a variety of handling techniques, and the application of various physical methods. The course may be repeated for credit provided the topics differ. (On Demand)

GRADUATE COURSES

500 Fundamentals of Chemistry. 3 hours.

502 Fundamentals of Modern Chemical Analysis. 3 hours.

503 Fundamentals of Modern Chemical Analysis Laboratory. 1 hour.

516 Investigations in Chemistry. 1-3 hours.

520 Advanced Inorganic Chemistry I. 3 hours.

521 Advanced Inorganic Chemistry II. 3 hours.

530 Instrumental Analysis I. 3 hours.

531 Instrumental Analysis II. 3 hours.

540 Organic Reactions. 3 hours.

541 Theoretical Organic Chemistry. 3 hours.

550 Chemical Thermodynamics. 3 hours.

551 Chemical Kinetics. 3 hours.

562 Intermediary Metabolism. 3 hours.

563 Enzymology. 3 hours.

564 Enzymology Laboratory. 1 hour.

570 Lecture Demonstration Techniques. 3 hours.

598 Graduate Seminar. 1 hour.

599 Thesis Research and Writing. 1-6 hours.

599c Maintaining Matriculation. 1-6 hours.

632 Principles of Analytical Chemistry. 3 hours.

652 Introductory Quantum Mechanics. 3 hours.

675 Advanced Topics in Chemistry. 1-3 hours.

799 Doctoral Research in Chemistry. 1-6 hours.

799c Maintaining Matriculation. 1-6 hours.

DEPARTMENT OF ENGINEERING TECHNOLOGY

SCIENCE AND TECHNOLOGY HALL, ROOM 200

Associate Professor Boyce D. Tate, P.E., Head

Professor: D. Rowe, P.E.
Associate Professors: W. Beard, P.E.; A. Bush, P.E. J. Carr, P.E.; H. Healey, P.E.; W. Moore, P.E., J. Russell
Assistant Professors: R. Baxter, P.E.; R. Nichols
Assistant Instructor: J. Smith

Engineering Technology is defined as "that part of the technological field which requires the application of scientific and engineering knowledge and methods, combined with technical skills, in support of engineering activities; it lies in the occupational spectrum between the craftsman and the engineer, at the end of the spectrum closest to the engineer."

The curricula in Civil, Electrical, Environmental and Mechanical Engineering Technology are designed to fulfill this definition, but at the same time provide much more. With the inclusion of the University's general studies requirements, additional basic science, applied mathematics and English, plus courses in computer science and business administration, these curricula are the broadest in scope of any offered by this institution. It should be noted that the mathematics and science content is considerably less than required in an engineering curriculum. The Engineering Technology graduate is prepared to enter an engineering activity which will provide a comfortable income and at the same time make a significant civic contribution to the community, state and nation. Graduates of these curricula qualify to become Certified Engineering Technologists at the national level.

Western's Engineering Technology graduates are providing engineering assistance with design consulting firms, public utility companies, governmental agencies, construction companies, manufacturing industries, mining companies and some are involved in technical sales.

The Broadcast Engineering Technology program is designed to prepare engineering and technical personnel for the comercial and educational broadcasting industry including radio and television. A graduation requirement is the passage of the F.C.C. first class telephone examination and thus the acquisition of that license.

The Environmental Science curriculum is designed primarily to prepare environmental specialists for service with State and Federal Health Agencies and Industries. It is also an excellent curriculum for the pre-medical or pre-dental student to follow. The chemistry and biology content, coupled with mathematics and environmental engineering courses, provide an exceptional base for the medical fields.

Graduates of two-year programs at Technical Institutes, Junior and Community Colleges may continue their education at the junior level and pursue the B.S. degree in any of these curricula. Acceptance of credit is determined by the University Registrar and the Head of the Engineering Technology Department.

AREA OF CONCENTRATION IN BROADCAST ENGINEERING TECHNOLOGY

The area of concentration in broadcast engineering technology (reference number 532) requires a minimum of 64 semester hours and leads to a Bachelor of Science degree. Total requirements for the area are below:

General Studies Electives	30
History 119/120	3
English 101, 102	6
Math 118E, 120	8
Computer Science 240	3
Physics 201, 202, 207, 208	8
Speech 145	3
Ind. Educ. 213	3
Engr. Tech. 107, 111, 121, 123, 261, 263, 271, 273 301, 371, 373, 431, 461, 471, 463, 473, E. T. Electives;	
Br. Com. 185, 261, 266, 301, 366; Br. Com. Electives;	
Engr. Tech. 441 — Internship	63
Electives (Free)	6
	133

AREA OF CONCENTRATION IN CIVIL ENGINEERING TECHNOLOGY (AN ECPD ACCREDITED CURRICULUM)

The area of concentration in civil engineering technology (reference number 535) requires a minimum of 58 semester hours and leads to a Bachelor of Science degree. Total requirements for the area are listed below:

General Studies Electives	24
English 101, 102, 207	9
Math. 118E, 120, 220, 203	14
Chem. 101E, 102	4
Physics 201, 207	4
Ind. Educ. 202E	3
Computer Science 240	3
Geol. 111, 113	4
Geography 480	3
Speech 145	3
History 119/120	3
Engr. Tech. 107, 207, 216, 217, 280, 302, 307, 316, 317, 326, 337, 338, 339, 346, 348, 352, 354, 356, 498, E. T. Electives	58
	132

AREA OF CONCENTRATION IN ELECTRICAL ENGINEERING TECHNOLOGY (AN ECPD ACCREDITED CURRICULUM)

The area of concentration in electrical engineering technology (reference number 538) requires a minimum of 56 semester hours and leads to a Bachelor of Science degree. Total requirements for the area are listed below:

General Studies Electives	30
English 101, 102, 207	9
Math. 118E, 120, 220, 320	14
Physics 201, 202, 207, 208	8
Ind. Educ. 213	3
Computer Science 240	3
History 119/120	3
Speech 145	3
Business Elective (Upper division)	3
Engr. Tech. 107, 111, 121, 123, 201, 203, 261, 263, 271, 273, 301, 351, 353, 371, 373, 401, 403, 451, 453, 471, 473, 481, 483, 493, E. T. Electives	56
	132

AREA OF CONCENTRATION IN MECHANICAL ENGINEERING TECHNOLOGY (AN ECPD ACCREDITED CURRICULUM)

The area of concentration in mechanical engineering technology (reference number 544) requires a minimum of 56 semester hours and leads to a Bachelor of Science degree. Total requirements for the area are listed below:

General Studies Electives	27
English 101, 102, 207	9
Math. 118E, 120, 220	11
Physics 201, 202, 207, 208	8
Ind. Educ. 202E, 214, 327E	9
Chem. 101E, 102	4
Computer Science 240	3
History 119/120	3
Engr. Tech. 107, 207, 217, 232, 302, 307, 317, 327, 332, 337, 339, 352, 354, 392, 417, 494, E.T. Electives	56
	130

AREA OF CONCENTRATION IN ENVIRONMENTAL ENGINEERING TECHNOLOGY (AN ECPD ACCREDITED CURRICULUM)

The area of concentration in environmental engineering technology (reference number 541) requires a minimum of 49 semester hours and leads to a Bachelor of Science degree. Total requirements for the area are listed below:

General Studies Electives	27
English 101, 102, 207	9
Math. 118E, 120, 220	11
Computer Science 240	3
Chem. 105, 106, 107, 108, 309	12
Physics 231	3
Biology 148, 149, 158, 159	7
History 119/120	3
Ind. Educ. 202E	3
Engr. Tech. 107, 280, 216, 217, 337, Env. E. T. Electives	54
	132

AREA OF CONCENTRATION IN ENVIRONMENTAL SCIENCE

The area of concentration in environmental science (reference number 550) requires a minimum of 52/53 semester hours and leads to a Bachelor of Science degree. Total requirements for the area are listed below:

General Studies Electives	24
History 119/120	3
English 101, 102	6
Math. 118E, 120, 220	11
Chem. 105, 106, 107, 108	8
Physics 231, 332, 207, 208	8
Biology 148, 149	4
Economics 202, 203	6
Free Electives	9
Engr. Tech. 107, 280, 360, 365, 430, 435, 440 or 490, 375, or 410, 415, 420, 425 or 470, 480, 460; Chem. 309; Biol. 158-159; Engr. Tech. or Science Electives	52
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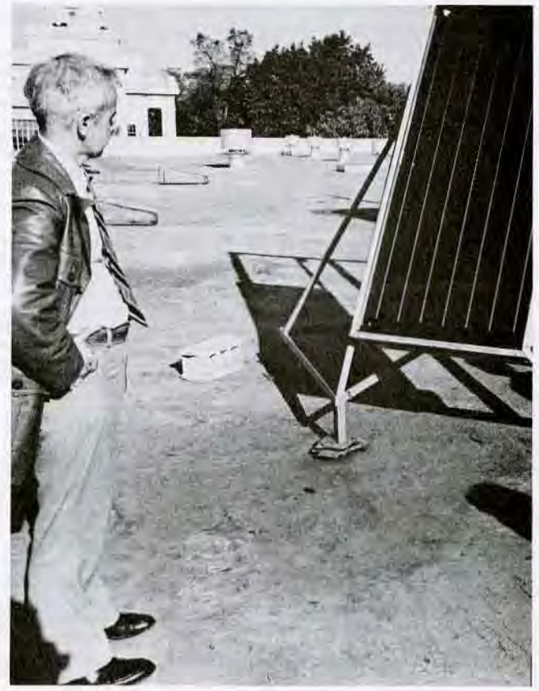
ASSOCIATE DEGREE PROGRAMS

For those students desiring a two-year program, Associate of Science degrees are available in Civil Engineering Technology, Electrical Engineering Technology and Mechanical Engineering Technology. The curricula for these programs are published in the Bowling Green Community College Bulletin.



COURSES OF INSTRUCTION

GENERAL (ET)

107 Introduction to Engineering Technology. 1 hour.
This course introduces the student to the various specialities in Engineering Technology, careers and opportunities that are available and reviews the technical competence that is expected of Engineering Technicians and Technologists. Films, field trips and visiting lecturers are utilized to give the student as broad a perspective as possible. (Fall, Spring)

207 Engineering Geometry & Graphics. 3 hours.
Corequisite: I.E. 102E or equivalent, Math 118E.
Graphical representation of laboratory data; empirical equations; graphical addition, integration and differentation; functional scales; nomography; graphical solutions to engineering problems involving lines and planes; graphical stress analysis by use of vectors. (Fall, Spring)

217 Statics. 3 hours.
Prerequisite: Math. 120.
Fundamental concepts of statics which is the branch of engineering mechanics that deals with the external effects of forces on bodies at rest or in non-accelerated motion; resultants and equilibrium of force systems; friction; centroids and moments of inertia of areas and masses. (Fall, Spring)

307 Engineering Cost Analysis. 3 hours.
Prerequisites: Junior Standing and Calculus.
This course deals with numerical analysis of alternative solutions to engineering economy problems. Includes linear programming, critical path methods, interest and present worth, depreciation and tax considerations, fixed costs, sunk costs, minimum costs and replacement costs. Field trip to factories, offices where appropriate. (Fall)

317 Electricity and Machinery. 3 hours.
Prerequisite: Math 118E.
A course covering the fundamentals of electricity and electrical machinery, primarily for ET students with a minimum of prior instruction in electricity (no credit will be allowed for electrical and broadcast Engineering Technology majors). Topics include: DC circuit theory, AC circuit theory, three-phase systems, magnetic circuits, transformers, DC motors and generators, AC generators and induction, synchronous and universal motors. (Fall)

327 Dynamics. 2 hours.
Prerequisite: ET 217.
Problem solving methods in Kinematics, including absolute and relative motion of particles and rigid bodies; Kinetics, with solution of problems by the methods of force, mass and acceleration; work and energy; and impulse and momentum. (Spring)

337 Strength of Materials. 3 hours.
Prerequisite: ET 217.
Concepts of stress and elastic deformation, including axial torsional, flexural and combined stresses; elongation, deflection and column buckling; materials testing. Lecture three hours. (Fall, Spring)

339 Materials Testing Laboratory. 1 hour.
Corequisite: ET 337.
Testing of metals and non-metals in compression tension and torsion; laboratory experiments in beam deflection, riveted connections, and column buckling; installation and use of strain gages; analyzing and reporting test data. Two hours per week. (Fall, Spring)

347 Solar Fundamentals for Building Design. 3 hours.
Prerequisites: ET 302 or consent of instructor.
The course is intended to provide students with an understanding of the application of solar energy to residential or light commercial buildings. Space heating & domestic hot water systems will be designed & evaluated considering both energy efficiency and economics.

407 Atmosphere Pollution: Sources, Effects, Monitoring and Control. 3 hours.
Prerequisites: Chem. 105 or equivalent and consent of instructor.
The course content will include sources of air contaminants: effects on people, animals, plants and materials; monitoring air pollutants; the legal aspects of air pollution; and air pollution control. The laboratory portion will deal with sampling and analyses for gases and particulate. Lecture two hours; lab two hours. (Fall)
Cannot be used for ET Major.

417 Electronics & Instrumentation. 3 hours.
Prerequisites: ET 317 & MATH 120 or PHYS 340.
A course covering the fundamentals of electronic circuits and instrumentation, primarily for E.T. students other than electrical or broadcast. Topics include diodes, transistors, integrated circuits, vacuum tubes, basic amplifier theory, power supplies. (Spring)

427 Water Pollution for Science Teachers. 3 hours.
Prerequisite: Permission of instructor.
The importance of water in the environment will be presented. Topics to be discussed will include water resources, water pollutants; origins, characteristics & effects, water pollution legislation & standards and water and waste water treatment. The laboratory will deal with measurements of water & water quality parameters. Field trips will be conducted. Lecture 2 hours; lab 2 hours.

475 Selected Topics in Engineering Technology. 1-3 hours.
Prerequisite: Permission of instructor.
A consideration of special topics to acquaint the advanced student with significant problems and developments of current interest in Engineering Technology. Topics to vary each semester offered. Field trips as appropriate. (Fall, Spring)

CIVIL (CET)

216 Plane Surveying. 3 hours.
Prerequisites: High School algebra and trigonometry or equivalent.
Classroom study and laboratory practice provide the student with practical knowledge of taping, differential and profile leveling, use of transit to measure angles; bearings and azimuths; traverse and area computations; stadia and topographic mapping. Lecture two hours, lab three hours. (Fall, Spring)

316 Route Surveying. 3 hours.
Prerequisite: ET 216.
Classroom study and laboratory practice in construction layout of highways including profiles, cross sections, slope staking; vertical, circular, compound and spiral curves; grade, curve and earthwork computations; geometric design and drainage. Lecture two hours, lab two hours. (Fall)

326 Construction Planning, Costs, & Estimates. 3 hours.
Prerequisite: Junior standing.
This course covers every aspect of the estimator's job including computing materials, labor, equipment, overhead costs and profit for selected construction projects. Also included are bid preparation, construction planning, scheduling and management, materials handling, analysis of performance, cost and suitability of various types of construction equipment. (Fall)

338 Materials of Construction. 2 hours.
Prerequisite: ET 346.
Laboratory tests of aggregates and bituminous materials; design of concrete mixes; making and testing of concrete specimens. Lecture one hour, lab two hours. (Spring)

346 Soil Mechanics. 3 hours.
Corequisite: ET 337.
Fundamentals of soil mechanics with emphasis toward laboratory testing and analysis; field evaluation; design problems as they pertain to foundations, subgrades, earth dams and embankments. (Fall)

348 Soil Mechanics Laboratory. 1 hour.
Corequisite: ET 346.
A laboratory course correlated with ET 346. Two laboratory hours per week. (Fall)

356 Structural Analysis & Design I. 4 hours.
Prerequisite: ET 337.
Analytical and graphical stress analysis of statically determinate beams and trusses; design of structural components of steel, timber and concrete; design of connections, use of building codes and design handbooks; structural drafting. Lecture three hours; lab two hours. (Fall)

416 Advanced Surveying. 3 hours.
Prerequisite: ET 216.
Triangulation; U.S public land surveys; boundary control and legal principles of land surveying; Solar and Polaris observations for establishing true bearings; state plane coordinate system. Lecture two hours; lab two hours. (Spring)

426 Highways. 3 hours.
Prerequisite: ET 346.
Corequisite: ET 338.
Bituminous concrete and portland cement concrete materials; design of highway pavements; soil stabilized roads, highway maintenance, drainage and serviceability; airport pavements. (Spring)

436 Explosives and Blasting. 3 hours.
Prerequisite: ET 346 or permission of instructor.
Composition and characteristics of commercial explosives, electric and non-electric initiation, design of single and multiple charges for safe and efficient rock fragmentation and displacement. Rules and regulations governing storage and use; introduction to mining methods. (Fall)

446 Advanced Soils & Foundations. 3 hours.
Prerequisites: ET 346, 348.
Continuation of ET 346 with emphasis upon current design problems, recent innovations and complex testing techniques. Lecture two hours; lab two hours. (Spring)

456 Structural Analysis & Design II. 3 hours.
Prerequisite: ET 356.
Continuation of ET 356 including analysis and design of statically indeterminant structural components. (Spring)

498 C.E.T. Senior Project. 3 hours.
Prerequisite: Second Semester Senior in C.E.T.
Teams of two or three students work on a project which utilizes much of the previous course work in Civil Engineering Technology and related subjects. When possible the projects are done for the benefit of the local governments or the University and under their direction. No lecture. (Fall or Spring)

ELECTRICAL (EET)

111 Electricity I. 3 hours.
Prerequisite: 2 years of high school algebra.
Corequisite: Math 118E.
An introductory course in DC electricity and magnetism. Course involves analysis of the techniques DC current and voltage relationships in resistive networks, an introduction to inductive and capacitive components and analysis of magnetic circuits. (Fall, Spring)

121 Electricity II. 3 hours.
Prerequisites: ET 111 and Math 118E.
Corequisite: ET 123.
The sinusoidal voltages and currents are introduced using complex algebra and phasors. Topics covered include reactance, impedance, admittance, power, power factor, equivalent circuits, circuit theorems, resonance, transformers and a brief introduction to polyphase systems. (Fall, Spring)

123 Electricity II Laboratory. 1 hour.
Corequisite: ET 121.
A laboratory course where the student is introduced to electronic equipment and measurement techniques. Student exercises are designed to verify classroom theory and to develop expertise in the use of electronic laboratory equipment. Two hours laboratory per week. (Fall, Spring)

201 Digital Circuits. 3 hours.
Prerequisite: ET 261.
Corequisite: ET 203.
An introduction to non-sinusoidal signals and circuits used in digital systems. Topics include waveform analysis, Boolean algebra, logic gates, flip-flops, counters, registers and A/D or D/A conversion. (Spring)

203 Digital Circuits Laboratory. 1 hour.
Corequisite: ET 201.
A laboratory course involving the application of TTL logic devices in digital design. Student experiments progress from basic gates through arithmetic circuits, counters and converters. Two laboratory hours per week. (Spring).

261 Electronic Circuits I. 3 hours.
Prerequisite: ET 121.
Corequisite: Math. 120 and ET 263.
The course introduces semiconductor physics, diodes, transistor voltage and power amplifiers. Methods of predicting and analyzing diode and transistor amplifiers are emphasized. (Fall, Spring)

263 Electronic Circuits I Laboratory. 1 hour.
Corequisite: ET 261.
A laboratory course offered in conjunction with ET 261. The course provides the student with experience in working with semiconductor diode and transistor circuits. Student proficiency with laboratory equipment continues to be emphasized. Two laboratory hours per week. (Fall, Spring)

271 Electronic Circuits II. 3 hours.
Prerequisite: ET 261 and Math. 220.
Corequisite: ET 273.
Continuations of ET 261. Classes and types of power amplifiers, JFET and MOSFET voltage amplifiers are analyzed. Integrated circuits and their application are covered in addition to negative feedback, and feedback oscillators and power supply regulation. (Spring)

273 Electronic Circuits II Laboratory. 1 hour.
Corequisite: ET 271.
A laboratory course designed to provide the student with experience in working with and analyzing bipolar and Field effect transistor amplifiers. Integrated circuit type operational amplifiers are also investigated. Two laboratory hours per week. (Fall, Spring)

301 Circuit Design. 3 hours.
Prerequisite: ET 121.
A lecture and laboratory course covering the fundamentals of electronic circuit layout and fabrication. Printed circuit layout and design is emphasized. A complete electronic project is fabricated by the student. Two hours lecture and two hours laboratory per week. (Spring)

351 Digital Systems. 3 hours.
Prerequisite: ET 201.
Corequisite: ET 353.
A course covering the design of small scale digital computers. The emphasis is upon the design of a small scale computer similar to present day microprocessors. Microprogramming techniques and variable machine cycle operation is covered. (Fall)

353 Digital Systems Laboratory. 1 hour.
Corequisite: ET 351.
A laboratory course which introduces the student to the use of microprocessors. Laboratory experiments involve the machine language programming of a 6502 based microcomputer. Computer applications for control of keyboards, displays and other external devices are also covered. Two laboratory hours per week. (Fall).

371 Communication Systems. 3 hours.
Prerequisite: ET 271.
Corequisite: ET 373.
R.F. voltage and power amplifiers, oscillators, amplitude modulation and detection, FM and other specialized modulation systems are studied. An introduction to television is provided. (Spring)

373 Communication Systems Laboratory. 1 hour.
Corequisite: ET 371.
A laboratory course which introduces the student to R.F. amplifiers, phase locked loops, modulators, detectors and other circuit used in the communication field. Two laboratory hours per week. (Spring)

401 AC/DC Machines. 3 hours.
Prerequisites: ET 121, IE 325 or equivalent.
Corequisite: ET 403.
Electrical generators, motors, controls, and transformers. (For E.E.T. majors and students with a background in AC electricity.) Lecture three hours. (Fall)

403 AC/DC Machines Laboratory. 1 hour.
Corequisite: ET 401.
Laboratory correlated with ET 401. Lab two hours. (Fall)

411 Electronic Recording and Reproduction of Sound. 3 hours.
Prerequisite: ET 271.
A study of electronic circuits and systems used for the recording and reproduction of sound. Topics covered include magnetic recording, disk recording, microphones, speaker systems, amplifiers and frequency equalization. (Spring)

421 Microwaves. 3 hours.
Prerequisite: ET 471.
Study of microwave sources and components, waveguide transmission, microwave system measurements and microwave applications including radar systems. Lecture two hours; lab two hours. (Fall)

431 Broadcast Technical Operations. 2 hours.
Prerequisites: ET 371, ET 471, or permission of instructor.
This course covers the Federal Communication Commission (FCC) Radio-telephone First Class License requirements. Basic radio law and operating practices as well as FCC rules and regulations are emphasized. Communications circuits and systems are reviewed based on student needs. Presentation methods include lecture and discussion in conjunction with self-paced programmed materials. Course culminates in successful completion of the FCC Radio-telephone First Class License examination. (Fall, Spring)

441 Broadcast Engineering Internship. 3-6 hours.
Prerequisites: ET 371, ET 471.
This course affords the student credit for a practical work internship in on-the-job training at participating radio and television facilities. Responsibility for arranging for the position under the supervision of the Station Engineer rests with the student. (Fall, Spring)

451 Modern Electronics. 3 hours.
Prerequisite: ET 271.
Corequisite: ET 453.
A study of the application of modern electronic discrete and integrated circuits in industry. Topics include thyristors, unijunction transistors, phototransistors, triacs and other semi-conductor devices and their application to industrial control and monitoring. (Fall)

453 Modern Electronics Laboratory. 1 hour.
Corequisite: ET 451.
A laboratory course which provides the student with experience in designing and analyzing voltage regulating circuits, SCR applications and opto-electronic circuits. Two laboratory hours per week. (Fall)

461 Broadcast Systems. 3 hours.
Corequisite: ET 463.
Prerequisite: ET 371, 471.
Engineering aspects of AM, FM and TV broadcast facilities including TV cameras, consoles, tape recorders, microphones, proof-of-performance tests and studio maintenance. (Fall)

463 Broadcast Systems Laboratory. 1 hour.
A broadcast facilities laboratory correlated with ET 461. Two laboratory hours per week. (Fall)

471 Networks. 3 hours.
Prerequisite: ET 271.
Corequisite: ET 473.

Study of transmission line and antenna theory and measurements. Topics include matching networks and use of Smith Charts. (Spring)

473 Networks Laboratory. 1 hour.
Corequisite: ET 471.
A laboratory course correlated with ET 471. Two hours laboratory per week. (Spring)

481 Advanced Electronics. 3 hours.
Prerequisites: ET 271, ET 273 & MATH 320.
Corequisite: ET 483.
A continuation of the study of linear electronic devices and circuits. Bipolar and field effect transistor amplifiers are reviewed and analyzed in more depth. Emphasis is placed upon the understanding and use of operational amplifiers as feedback amplifiers, and oscillators. (Spring)

483 Advanced Electronics Laboratory. 1 hour.
Corequisite: ET 463.
A laboratory course providing the student with laboratory experience in field effect transistors, operational amplifiers, integrated circuit timers, active filters, phase locked loops and other MSI linear integrated circuits.

491 Microprocessor Systems Design.
3 hours.
Prerequisites: ET 351, 353.
A lecture-laboratory course emphasizing the design of digital systems utilizing a microprocessor. Student exercises and solutions will include an optimization of software techniques versus hardware for system design. Four laboratory hours and one lecture. (Spring)

493 E.E.T. Senior Project. 3 hours.
Prerequisite: Senior standing and an approved project.
A course designed for the student to assume the primary responsibility for the completion of an electronic/electrical project. The project must result in hardware and include adequate documentation. (Fall, Spring)

ENVIRONMENTAL (ENV ET)

280 Introduction to Environmental Studies.
3 hours.
A comprehensive view of the interrelationships between the physical, chemical and biological parameters of the environment is provided in this course. The basic concepts and language of population, air pollution, water pollution, environmental radiation, solid waste disposal and other environmental topics are emphasized. Films, field trips and guest lecturers are utilized when practical. A general understanding of some of the environmental problem areas is the objective of this course. (Fall, Spring)

310 General Hydrology. 3 hours.
In this course emphasis is given to descriptive and quantitative hydrology. The hydrologic cycle, precipitation, evaporation and transpiration will be covered under descriptive hydrology. Hydrographs, run-off relations, ground water and storage routing will be covered under quantitative hydrology. Considerations will be given to use and management of water as a resource. (Fall)

360 Air Pollution Control. 3 hours.
Prerequisite: Chem. 105 or equivalent.
This course consists of three hours of lecture and includes demonstration of basic air pollution monitoring equipment. The following topics will be covered: air pollution sources, nature and behavior of air pollutants, air sampling and analysis, dispersion and diffusion in the atmosphere, the effects of weather on air pollution, air pollution surveys, physiological effects and methods and equipment for community air pollution control. (Fall)

365 Air Pollution Control Laboratory.
1 hour.
Corequisite: ET 360.
This laboratory deals with calibration of air monitoring devices as well as the sampling for gaseous and particulate contaminants. Automotive Emissions Analysis and field trips are included. Lab two hours per week. (Fall)

375 Introduction to Water Resources.
3 hours.
See Geology 375.

410 Water Supply. 3 hours.
Prerequisite: ET 280.
This course includes the planning, operation and design of water supply systems. Specific topics covered are water consumption and supply, water quality standards and criteria, population predictions, hydrological considerations of surface and ground water, as well as the design of collection, purification and water distribution systems. Lecture three hours; lab three hours. (Fall)

415 Water Supply Laboratory. 1 hour.
Corequisite: ET 410.
A laboratory course correlated with ET 410. Emphasis is placed on testing procedures in carrying out water quality surveys and water treatment plant operation. Two laboratory hours per week. (Fall)

420 Waste Water Treatment. 3 hours.
Prerequisite: ET 280.
This course includes the theory, design and operation of waste water collection and disposal systems. The design of storm and sanitary sewers, sewage works and appurtenances are covered as well as the chemical and biological characteristics of waste water. Lecture three hours. (Spring)

425 Waste Water Treatment Laboratory.
1 hour.
Corequisite: ET 420.
Testing procedures for waste water treatment plant operation are covered. This laboratory course correlates with ET 420. Two laboratory hours per week. (Spring).

430 Radiological Health. 3 hours.
Prerequisites: Physics 332, Biology 148.
Corequisite: ET 435.
This course includes the fundamentals of atomic, nuclear and radiation physics as related to radiological health. Fundamentals of detection of ionizing radiation, including X and gamma radiations, alpha and beta particles and neutrons are covered. Radiation interaction, biological effects, radiation hazards (maximum permissible concentration and dose) and radioactive waste disposal are featured. (Fall or Spring)

435 Radiological Health Laboratory. 1 hour.
Corequisite: ET 430.
A laboratory course correlated with ET 430. Two laboratory hours per week. (Fall or Spring)

440 Industrial Hygiene. 3 hours.
Prerequisite: Chem. 105 or equivalent.
It is the purpose of this course to present the fundamental principles of occupational health and the recognition, evaluation and control of occupational health hazards. The course agenda includes lectures, demonstrations and field trips on such topics as the Occupational Safety and Health Act, 1970; industrial health hazards; reaction of the respiratory system to particulate and gases; chemical hazards, pneumoconiosis; noise measurement and control; evaluation of heat stress; electromagnetic spectrum; ionizing radiation; industrial ventilation. (Fall or Spring)

460 Environmental Impact Statements.
3 hours.
Prerequisite: Senior classification and permission of instructor.
This course is designed to provide the student with the necessary information in the preparation of assessments of environmental impacts as outlined by the National Environmental Policy Act (NEPA). Available resource information will be provided. (Spring)

470 Industrial Waste Treatment. 3 hours.
Prerequisites: Chem. 105 or equivalent, ET 280 and preferably ET 420.
This course includes an overview of regulations, characterization of industrial waste water, industrial waste survey, equalization neutralization, oil and grease removal, and chemical and biological treatment. Laboratory tests for cyanide, oil and grease, sludge filter-ability, and heavy metal concentrations are included. (Spring)

480 Solid Waste Treatment. 3 hours.
Prerequisites: Chem. 105 or equivalent.
This course is a study of the extent and characteristics of the solid waste problem. Both current practice and new developments in management of solid waste are presented. Lectures are supplemented by field trips and guest and student presentations. The course includes physical and chemical composition of refuse, cost of refuse disposal, collection methods and disposal methods such as sanitary landfill, incineration, composting, salvage and reclamation. The public health significance of solid waste management is emphasized. (Fall)

490 Sanitation. 3 hours.
Prerequisite: 6 hours Biology.
This course is designed to present the sanitary principles involved in the processing and distribution of milk and milk products, meat, shellfish and other foods. Field trips to local food preparation establishments, to milk and food processing plants, to swimming pools and housing projects such as model cities are integrated with laboratory testing for the isolation and identification of microorganisms involved in food-borne disease and outbreaks. Special emphasis is placed on the state and federal sanitation codes. Lecture two hours; lab three hours. (Fall or Spring)

MECHANICAL (MET)

232 Introduction to Material Science.
3 hours.
An introductory course to familiarize the student with the properties of materials used in industry today in order to develop an ability to select and use the materials efficiently. An analysis in the laboratory of the mechanical and metallurgical properties with respect to their behavior, utilization, modification, and limitations. Lecture two hours, lab two hours. Field trips where appropriate. (Fall)

302 Heat-Power I. 3 hours.
A course in energy conversion. Covers the fundamentals of thermodynamics and heat transfer with a major emphasis on efficient energy utilization. Topics covered include mass and energy balance, thermodynamic properties of fluids, fossil fuels, nuclear reactions, heat transfer, power plant cycles and refrigeration. Lecture two hours; lab two hours. Field trips where appropriate. (Fall, Spring)

312 Heat-Power II. 3 hours.
Prerequisite: ET 302.
A study of components employed in energy conversions. Application of thermodynamic principles to internal combustion engines, steam generation, heat exchangers, turbines, pumps, fans and compressors, refrigeration and solar energy collectors. Field trips where appropriate. Lecture two hours; lab two hours. (Spring)

322 Mechanisms. 3 hours.
Prerequisites: ET 207, ET 217 or consent of instructor.
Material covered includes analyzing a mechanism for its degree of movability, instant centers, path traced, velocity and acceleration. Various types of mechanisms covered include four bars, slider cranks, gears, gear trains and combination of these mechanisms. Lecture two hours; lab two hours. (Spring)

332 Machine Design I. 3 hours.
Prerequisites: ET 337, ET 232, ET 392.
Analytical stress analysis and design of machine elements emphasizing failure analysis and fatigue. Student design project integrates common machine elements into complete design. Lecture two hours; lab two hours. (Spring)

334 Machine Design Laboratory. 2 hours.
Prerequisite: ET 332.
Practical applications in the design of machines and products utilizing machine design theory and manufacturers catalogs resulting in complete project specifications and drawings. (Fall)

352 Fluid Mechanics. 3 hours.
Prerequisite: ET 217.
Corequisite: ET 354.
Basic coverage of fluid statics, fluid measurements and kinematics of fluids in motion; continuity, energy and impulse-momentum principles of ideal and real fluids; fluid flow in pipes and open channels. Lecture three hours. (Fall, Spring)

354 Fluid Mechanics Laboratory. 1 hour.
Corequisite: ET 352.
A laboratory course correlated with ET 352. Two laboratory hours per week. (Fall, Spring)

392 Manufacturing Processes. 3 hours.
Introduction to planning and methods, machines and materials used in metal working manufacturing. Introductory systems concepts of material handling and plant layout, mass production and numerically controlled machining. Interspersed discussion of the interface between people and manufacturing. (Fall)

442 Advanced Machine Design. 3 hours.
Prerequisite: ET 332.
The student learns how to integrate knowledge from prior analysis and design courses and how designed components are used to devise complete machines. Extensive use is made of case studies which orient the work toward the "real world." Field trips as appropriate. Lecture two hours; lab two hours. (Fall)

462 Heating, Ventilating and Air Conditioning. 3 hours.
Prerequisite: ET 302, or instructor consent.
Study of air conditioning systems, both heating and cooling and the control of temperature, humidity and purity of enclosed environments. Emphasis on heat load calculations and equipment used to maintain a desirable environment. Lecture two hours; lab two hours. (Spring)

472 Energy Systems Analysis. 3 hours.
Prerequisites: CS 241, ET 462.
A study of energy systems analysis procedures for evaluating the performance and efficiency of mechanical environmental systems for buildings. Emphasis on energy audits, energy systems analysis computer programs and energy conservation.

482 Industrial Hydraulics. 3 hours.
Introduction to practical fluid power transmission; components; circuitry and systems actually used in industry. Design of circuits and systems and introduction to fluidics. Field trips where appropriate. (Spring)

494 M.E.T. Senior Project. 3 hours.
Prerequisite: Senior MET Student.
Under the guidance of a Mechanical Engineer, teams of two students each select or are assigned a project integrating the students' previous course work in Mechanical Engineering Technology. Field trips where appropriate. (Fall, Spring)

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

ENVIRONMENTAL SCIENCES AND TECHNOLOGY BUILDING, ROOM 305

Professor Wayne L. Hoffman, Head

Professors: R. Ahsan, W. Cockrill, J. Davis, N. Fields, E. Hegen, J. McGregor, A. Peterson, C. Pickard, R. Seeger, J. Taylor
Associate Professors: N. Crawford, R. Dilamarter, M.Lowry II
Assistant Professors: G. Conner, J. Bingham
Instructor: T. Moore

The Department of Geography and Geology offers curricular programs designed to fulfill multiple needs of the student.

The GEOGRAPHY courses provide the scientific foundation for the investigation and understanding of the physical environment, of man as inhabitant of the earth, and of the interaction of environment and man. These courses offer basic professional training for geographers and city and regional planners; they provide geographic training for prospective elementary education teachers; they assist in the preparation of teachers of earth science and social sciences and they are a desirable component of academic programs for those students seeking a liberal arts education.

In addition to preparing students for teaching and planning careers, geography prepares students for service as industrial and commercial consultants, cartographers, meteorological technologists, and government work in a wide range of national, state and local agencies.

The courses in GEOLOGY provide the foundation for the scientific investigation of the earth as well as geologic education for the general student and prospective teacher. Geology majors may enter positions in industry

and government agencies or prepare for academic careers. Many geologists work in interdisciplinary fields such as oceanography, environmental and engineering geology and geochemistry. Geologists are needed in many areas such as basic earth research, natural resources development and environmental concerns.

The program in EARTH SCIENCE is designed for prospective teachers at the middle or secondary school level. The program includes courses in geology and physical geography as well as in related sciences.

The HYDROLOGY program gives students a strong knowledge of the science of hydrology. Graduates are well prepared to work as professional hydrologists with various federal and state agencies, consulting engineering firms and with industry. Students are also prepared for graduate work leading to academic and research careers. Hydrologists are needed to work in water resources planning, management and research.

A program in GEOPHYSICS is also available. Special courses in geology, geophysics and mathematics are required. A number of job opportunities are available in the field.

Geography courses are an integral part of the Latin American Studies, Asian Studies and Afro-American programs.

MAJOR IN GEOGRAPHY

The major in geography (reference number 674) requires a minimum of 33 semester hours and leads to a Bachelor of Science degree. Required courses are: Geography 100, 101, 300 and 315. Students majoring in geography will develop with their advisor a group of courses designed to meet their specific needs within the framework of the departmental offerings. At present the department offers the following specific emphases: General Geography, Geography for Teachers, International Studies, Mapping and Cartography, Physical Geography, Geomorphology and Hydrology, Meteorology and Climatology, Human Geography, Economic Geography, Urban Geography, Cultural and Historical Geography, Conservation of Natural Resources and City and Regional Planning. (Outlines of the various emphases can be obtained from advisors or the Department of Geography and Geology.)

MAJOR IN EARTH SCIENCE

The major in earth science (reference number 635) requires a minimum of 30 semester hours and leads to a Bachelor of Science degree. Students majoring in earth science under the Teacher Education Program must complete 30 hours of course work including Geology 111, 112, 113, 114, 325 and Geography 121. Additional courses numbered 300 or above for 15 additional hours must be elected from Geology 308, 309, 405, 411, 420, 465 and Geography 328, 402, 420 and 422. (Geography 328 and 422 may not be elected together.) Additional requirements include one course in Astronomy, one course each in Chemistry and Physics and one year of college Mathematics (to include algebra and trigonometry).

MAJOR IN GEOLOGY

The major in geology (reference number 677) requires a minimum of 33 semester hours and leads to a Bachelor of Science degree. Required courses (28 hours) are Geology 111 (102 may substitute for Geology 111 with permission of advisor), 112, 113, 114, 308, 309, 330, 350, 405, and 450. Two additional courses numbered 300 or above (to total at least 6 hours) must be elected from other available in geology, geophysics and hydrology courses.

Other requirements are Mathematics 118; Chemistry 120 and 222 with laboratories, (or with advisor approval, Chemistry 105 and 107 with laboratories), Physics 201 and 202 with laboratories, and Biology 148 with laboratory or Biology 156. A summer geology field camp is highly recommended and is required by most geology departments for admission to advanced degree programs. An additional course in Mathematics such as 120, 126, 203 and Computer Science 240, is also recommended. The geology advisor should be consulted concerning appropriate general electives in related areas such as engineering technology, agriculture, geography, etc.

MAJOR IN GEOPHYSICS

The major in geophysics (reference number 680) requires a minimum of 34 semester hours and leads to a Bachelor of Science degree. Students must complete: Geology 111, 112, 113, 114, 308, 309, 330, 350, 450, Geophysics 465, 467, and 3 additional hours in geology or physics. Additional requirements are: Mathematics thru 307 (or 320), Physics 205 and 206 and Chemistry 120 and 222.

CITY AND REGIONAL PLANNING OPTION IN ADMINISTRATIVE SERVICE

The area of concentration in administrative service with a city and regional planning option (reference number 505) requires a minimum of 69/80 semester hours and leads to a Bachelor of Science degree. The city and regional planning option was developed in response to the needs of a variety of social problems, pollution, urban and rural plight, and quality of life. The curriculum builds upon a broad general base and covers several basic fields. (For full program details, please see other catalog material). The City and Regional Planning Emphasis is designed to prepare students for entry-level planning positions in city, regional, state and federal agencies. The City and Regional Planning Emphasis may be completed by declaring a major as late as the junior year. Interested students should contact the Departmental Advisor for complete details.

Required courses are: Geography 315, 240, 415, 423, 480, 484, 495; Geology 415 and Engineering Technology 495.

AREA OF CONCENTRATION IN HYDROLOGY

The area of concentration in hydrology (reference number 565) requires a minimum of 99 semester hours and leads to a Bachelor of Science degree. Required courses are: Geology 111, 113, 308, 309, 490 (Hydrology), 310, 375, 438, 440, 458, 468, 488, Geography 121, 420; Engineering Technology 127, 352, 415, 425, 495; Mathematics 118, 126, 203, 240, 227, 307, 331; Chemistry 120, 222; Physics 205, 206, 207, 208; English 207; Economics 202, Library Science 101 and a Biology elective. General Education electives totaling 30 hours are available in geology, engineering technology, geography, mathematics and agriculture. Consult the hydrology program advisor for details.

MINOR IN GEOGRAPHY

The minor in geography (reference number 374) requires a minimum of 21 semester hours. Required courses are: Geography 100, 101 and one technique course selected from 315, 410, 415, 416, 452 and 491. Department advisors should be contacted to develop a course of study compatible with the department's philosophy and the student's needs.

MINOR IN EARTH SCIENCE

The minor in earth science (reference number 353) requires a minimum of 21 semester hours. Required courses are: Geology 111, 112, 113, 114, 325 and Geography 121. Two additional courses to total seven additional hours must be elected from Geology 308, 309, 405, 411, 420 and Geography 328 and 422. A minor in Earth Science must be taken in conjunction with a major or minor in another science or in mathematics.

MINOR IN GEOLOGY

The minor in geology (reference number 377) requires a minimum of 21 semester hours. Required courses are: Geology 111, 112, 113 and 114. Additional hours are to be chosen in consultation with the geology advisor.

ASSOCIATE DEGREE IN CARTOGRAPHIC AND MAPPING TECHNIQUES

The associate degree in cartographic and mapping techniques (reference number 217) requires a minium of 65 semester hours and leads to an Associate of Science degree. This program is designed to meet the increasing need for more and better qualified cartographic and mapping technicians. Courses given under this curriculum provide the educational qualifications to be a competent technician in map drawing offices or in the field. The rapidly advancing field offers opportunities for employment in real estate, private mapping and consulting firms and in federal, state and other governmental agencies.

Required courses are: Geography 315, 410, 324, 415, Industrial Education 102, Engineering Technology 150 and Journalism 343.

While providing a well-structured professional technical education, this two-year program can be used for continued studies toward higher degrees in geography and planning.

ASSOCIATE DEGREE IN METEOROLOGICAL TECHNOLOGY

The associate degree in meteorological technology (reference number 269) requires a minimum of 64 semester hours and leads to an Associate of Science degree. This program is designed to meet the increasing need for well-prepared meteorological technicians. Employment opportunities exist now and are forecast to increase in the future. The program was developed in consultation with experts of NOAA (National Oceanic and Atmospheric Administration) and FAA (Federal Aviation Administration), the two agencies which offer the largest share of job opportunities.

Western's Meteorological Technology program is the only one of its kind in the U.S.A. While providing a well-structured professional technical education, it should also serve well those students who wish to continue studies towards higher degrees in the sciences.

Required courses are: Geography 100, 122, 222, 422, Mathematics 120 and C.S. 140 or C.S. 240.

GRADUATE DEGREE PROGRAMS

The graduate programs in geography are designed to prepare students to become candidates for the Ph.D. degree, for careers in junior college teaching and for service as industrial and commercial consultants (factory location, transportation, foreign trade, etc.).

Other master's degree graduates in geography may pursue careers in cartography or enter such governmental services as regional and city planning, park service, diplomatic service and other areas of employment.

Three master's degree programs are offered in geography: The Master of Science Degree, the Master of Arts in Education Degree with a major or minor in Geography. Geography also participates in the interdisciplinary Master of Public Service degree program in which the department offers a Master's degree in City and Regional Planning.

A number of assistantships are available to outstanding graduate students. For further information see the Graduate College Bulletin or contact the department or Dean of the Graduate College.

COURSES OF INSTRUCTION

PHYSICAL GEOGRAPHY

100 Introduction to Man's Physical Environment. 3 hours.
A course designed to meet the general education requirement in the science area. This course introduces the student to the major aspects of man's physical environment. (Fall, Spring, Summer)

105 Physical Geography I. 3 hours.
May be used to satisfy a science requirement in the earth sciences area. Map projections, earth-sun relationships, weather, climate, soils and vegetation are treated with respect to local, regional and world distribution patterns. Processes and interrelationships that generate the geographic distributions are emphasized, and related to topics such as pollution and natural resources. (Fall, Spring)

105 Physical Geography I-K. 3 hours.
The course content is the same as that of 105 above. The method of instruction utilizes an individualized audio-visual tutorial system with self-paced learning, few lectures and open laboratory. (Fall, Spring)

106 Physical Geography II. 3 hours.
May be used to satisfy a science requirement in the earth sciences area. Topographic maps, rocks and minerals, hydrologic and geomorphic processes, water and landforms are studied as a part of man's physical environment. Emphasis is placed upon the formation and distribution of local, regional and world landform types. (Spring)

106 Physical Geography II-K. 3 hours.
The course content is the same as that of 106 above. The method of instruction utilizes an individualized audio-visual tutorial system with self-paced learning, few lectures and open laboratory. (Spring)

107 Physical Geography I-K Laboratory. 1 hour.
Prerequisite or corequisite: Geography 105.
Laboratory work to accompany Geography 105 (Physical Geography II and II-K). Optional for students enrolled in Geography

106 and 106-K depending on the program requirements. (Fall, Spring, Summer)

108 Physical Geography II-K Laboratory. 1 hour.
Prerequisite or corequisite: Geography 106 or 106-K.
Laboratory work to accompany Geography 106 (Physical Geography II and II-K). Optional for students enrolled in Geography 106 and 106-K depending on the program requirements of the student. (Fall, Spring)

121 Meteorology. 3 hours.
May be used to satisfy general education requirement in science. An introduction to the elements of weather, daily weather observations, operation of a weather station, interpretation of instrumental data and of atmospheric phenomena. (Fall, Spring)

310 General Hydrology. 3 hours.
(Cross-listed with Geology and Engineering Technology).
In this course emphasis is given to descriptive and quantitative hydrology. The hydrologic cycle, precipitation, evaporation and transpiration will be covered under descriptive hydrology. Hydrographs, run off relations, ground water and storage routing will be covered under quantitative hydrology. Considerations will be given to use and management of water as a resource. (Fall)

328 Climate, Soils, and Vegetation. 3 hours.
Prerequisite: One course in physical geography.
Treats the fundamentals of climate, climatic controls and distribution of climates. Considers soils, soil formation and distributions. Gives a general coverage to vegetational types and their relationship to climate and soils. Brings to focus the interrelationships between these three fundamentals of environment. (Spring)

402 Physiography of North America. 3 hours.
Prerequisite: Geography 100 or 106 or 106-K or Geology 102 or 111 and 113.
Each of the physiographic regions or provinces is studied. Locations and names of chief subdivisions of each region are noted. Orogenies, erosional cycles and cycle-end surfaces are emphasized. Laboratory involves interpretations of A.M.S. topographic models and of topographic maps. (Alternate Years)

420 Geomorphology. 4 hours.
Prerequisite: Geography 100 or 106 or 106-K or Geology 102 or 111 and 113. (Cross-listed with Geology).
The study of the origin, history and characteristics of landforms produced by fluvial, glacial, wind and wave erosion and mass-wasting and ground-water or by a combination of these, acting upon the major types of earth materials and structures. Laboratory work includes the interpretation of topographic and geologic maps, air-photos and steropairs. A field trip may be required. (Fall)

421 Advanced Geomorphology. 3 hours.
(Cross-listed wyth Geology.)
Prerequisite: Geography 420.
Course emphasis is on landform development under processes associated with running water. Principal topics are: Climate and geomorphic processes, weathering, the drainage basin as a geomorphic unit, water and sediment in channels, channel form, hillslope characteristics, drainage pattern evolution, channel changes with time and evolution of hillslopes. (Alternate Years)

422 Climatology. 4 hours.
Prerequisite: Geography 100 or 105 or 105-K.
This course analyzes one of the most important constituents of our environment. Presents the elements of climate and their world distribution with emphasis on the climatic controls; surveys the influences of climates on environment; introduces climatic classification systems and climatological regions of the world. (Alternate Years)

424 Weather Analysis and Forecasting. 3 hours.
Prerequisite: Geography 121 or consent of instructor.
Analysis of air masses, principles of weather forecasting, the drawing and interpretation of the daily weather map and the making of weather forecasts. (Spring)

426 Applied Meteorology/Climatology. 3 hours.
Prerequisite: Geography 422 or permission of instructor.
This course offers a practical insight into the influence of meteorology and climatology on man. Problems of the physical environment caused by what man has done or will do to the weather and climate patterns of the world.

HUMAN GEOGRAPHY

101 Principles of Human Geography. 3 hours.
A category C general education course.
This course emphasizes the socio-cultural diversity of mankind as an essential requisite to geographic understanding. It analyzes the nature and distribution of population, cultural attributes, types of economy and urban patterns. (Fall, Spring, Summer)

210 Human Ecology. 3 hours.
(Cross-listed with Anthropology 210).
A course designed to examine the human element as a functioning variable within an ecosystem through the study of culture groups and their mutual interrelationship with their immediate natural and social environment. The first half of the semester will deal with the ecological concept and with contemporary "primitive" cultures, while the second half of the semester will concern itself with rural and urban American ethnic groups. (Fall)

350 Economic Geography. 3 hours.
A category C general education course.
This course examines the functional interrelationships among economic activities and areas, in the consumption, production and exchange of goods and services. (Fall, Spring)

351 Historical Geography of the United States. 3 hours.
Prerequisite: Geography 101.
A study of the geographical influence upon the exploration, colonization and development of the United States. (Fall)

423 Transportation Planning. 3 hours.
Prerequisite: Geography 350 or permission of instructor.
A critical examination of the problems of interaction, diffusion and information transfer as they appear in a spatial context. Current research and planning needs are analyzed. (Spring)

425 Political Geography. 3 hours.
Prerequisite: Geography 101 or permission of instructor.
A study of the political system as a spatial phenomenon from pre-literate forms of sociopolitical integration to the nation-state and other modern forms of political unification. Examples from local, metropolitan-regional, national and international levels.

430 Cultural Geography. 3 hours.
The course examines the anthropological concept of culture as it relates man to the landscape. Areas of investigation include landscape perception, settlement patterns, dietary systems, plant and animal domestication and man's alteration of the earth's surface. Student field investigation is stressed. (Fall and Spring)

434 Historic Preservation Planning: Principles and Practices. 3 hours.
For course description, please see City and Regional Planning. (Fall)

470 Geography of Cities. 3 hours.
Prerequisite: Permission of instructor.
This course covers the origin and evolutionary development of cities, patterns of world urbanism at the present time, and provides a detailed examination of cities in the United States. (Fall)

471 Conservation of Natural Resources. 3 hours.
A category C general education course.
Natural resources of the United States are studied and recommendations for their more efficient utilization are presented. (Fall, Spring, Summer)

478 Geography of Agriculture. 3 hours.
Prerequisite: Geography 350, or Agriculture 360, or consent of instructor.
A study of the regional patterns of world agricultural production. Ecological and economic factors and cultural preferences are used in explaining the spatial patterns of crops and agricultural types. Present and potential production are evaluated in terms of regional and world needs. (Fall)

479 Industrial and Commercial Geography. 3 hours.
Prerequisite: Geography 350 or consent of instructor.
Course deals with manufacturing and with the commercial activities and facilities related to assembling of raw materials and distribution of products. Distribution of each of the principal types of manufacturing is studied. Processes, if geographically significant, are presented and locational reasons for each type are noted. (Spring)

480 Urban Geography. 3 hours.
Geographic principles related to basic elements of distribution, structure, functional relationships and regional setting of urban centers. (Fall, Spring)

484 Planning: Theory and Application. 3 hours.
Prerequisite: Permission of instructor.
For course description, please see City and Regional Planning. (Spring)

485 Population and Resources. 3 hours.
Prerequisite: Permission of instructor.
The distribution of population and population characteristics are viewed against the background of the resources and cultures of the world. Problem regions are identified. Examples of such areas are studied in their regional setting and world-wide patterns are outlined. The background and causes of the problems are studied and possible attacks on them are developed and considered. (Spring)

REGIONAL GEOGRAPHY

200 Introduction to Latin America. 3 hours.
This course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures. Since this course is taught by various departments, see Latin American Studies Advisor for enrollment.

360 Geography of North America. 3 hours.
Analysis of selected problems, related to natural conditions, land use, settlement patterns and regional structure of the United States and Canada. (Fall, Spring, Summer)

361 World Regional Geography. 3 hours.
Prerequisite: Geography 101.
A general survey of the world, excluding North America. Emphasis is upon human-use regions. (Fall, Spring, Summer)

451 Geography of Kentucky. 3 hours.
A regional study assessing the natural and human resources with special attention to current ecological, social and economic problems. (Fall)

453 Geography of the Soviet Union. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
A geographic analysis of the Soviet Union. (Spring)

454 Geography of Middle America. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
A regional analysis of Mexico, Central America and the West Indies. (Fall)

455 Geography of Australia and Islands of the Western Pacific. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
A survey of geographic patterns in Australia, Micronesia, Melonesia and Polynesia. (Fall 1972 and alternate years)

462 Geography of South America. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
Analysis of the physical and cultural bases of South America's geographic patterns with emphasis on problems of resource development. (Spring)

464 Geography of Europe. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
A geographic analysis of Europe. (Spring)

465 Geography of Asia. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
A study of regional differences with particular attention to the distribution and activities of the peoples in relation to the natural and economic setting and to problems of development. Excludes the Soviet Union. (Fall)

466 Geography of Africa. 3 hours.
Prerequisite: Geography 101 or consent of instructor.
A geographic survey, assessing the relationships of the physical and cultural patterns to actual and potential economic development. (Fall, Spring)

467 Geography of the Middle East. 3 hours.
Prerequisite: Permission of instructor.
This course deals with the various aspects of the sequent occupance of South-western Asia and surrounding regions. Emphasized are the physical setting, the historic religious geography of the region and the contemporary scene. (On Demand)

GEOGRAPHIC TECHNIQUES

315 Cartography I. 3 hours.
For course description, please see Cartographic and Mapping Techniques. (Fall, Spring)

324 Maps and Diagrams. 3 hours.
Prerequisite: One course in Geography.
An introduction to the kinds and uses of maps; scales, map symbols, projections and grids; map interpretation; construction of simple diagrams and charts and uses of the globe. (Fall)

410 Cartography II. 3 hours.
Prerequisite: Cartography I (315) or Maps & Diagrams (324).
History of cartography, map compilation, lettering and typography and generalization; cartographic design, map reproduction, use of color in maps, map projections, scribing techniques, special maps. (Fall, Spring)

415 Air Photo Interpretation. 3 hours.
Prerequisite: Permission of instructor.
Characteristics of aerial photographs; use of photos for analysis of physical and cultural features on the earth and air photo approach to urban and regional planning. (Fall)

416 Remote Sensing: Principles and Applications to Environment and Planning. 3 hours.
Prerequisite: Permission of instructor.
Analysis and evaluation of remote sensing techniques. Application of remote sensing in the study of man's bio-physical environment with the use of infrared, thermal infrared, radar and space photography. (Spring)

452 Field Studies in Geography. 3 hours.
Prerequisite: Permission of instructor.
Field methods are emphasized in problems which are assigned. (Fall)

491 Data Analysis and Interpretation. 3 hours.
Prerequisite: Mathematics 100 or consent of instructor.
Basic concepts of statistical models and use of samples; variation, statistical measures, distribution, tests of significance, analysis of variance and elementary experimental design, regression, correlation and chi-square as related to interpretation and use of scientific data. (Fall, Spring)

CITY AND REGIONAL PLANNING

240 Introduction to Planning. 3 hours.
Prerequisite: Three hours of social science credit. An overview of planning theory, practice and organizations structure. History of planning and planning thought. The comprehensive plan, zoning and current legislation. (Fall, Spring)

423 Transportation Planning. 3 hours.
Prerequisite: Geography 350 or permission of instructor.
A critical examination of the problems of interaction, diffusion and information transfer as they appear in a spatial context. Current research and planning needs are analyzed. (Spring)

434 Historic Preservation Planning: Principles and Practices. 3 hours.
Prerequisite: Geography 101 or permission of instructor.
An overview of historic preservation methodology and practice as related to urban, small town and rural neighborhoods. An introduction to historic preservation law and impact statements. (Fall)

484 Planning: Theory and Application. 3 hours.
Prerequisite: Geography 240.
An analysis of advanced topics and results of recent research in city and regional planning. (Spring)

495 Planning Internship. 1-8 hours.
Prerequisite: Geography 240, 484 and permission of instructor.
Supervised planning experience in a cooperating government agency or private concern. (On Demand)

OTHER COURSES

300 Scope and Methods of Geography. 3 hours.
Prerequisite: 6 hours in Geography.
An examination of the field of geography as an academic discipline. The course content will include a review of various philosophies of the field, history of the discipline, trends and methods of analysis. (Fall)

475 Selected Topics in Geography. 1 to 3 hours.
Prerequisite: Senior standing and permission of instructor.
A study of a selected problem under the supervision of a faculty member. (On Demand)

CARTOGRAPHIC AND MAPPING TECHNIQUES

315 Cartography I. 3 hours.
Prerequisite: 6 hours in Geography or permission of instructor.
Scale drawing, copying of map, lettering, enlargement and reduction of map (use of Mapograph), dot maps, circle, squares, graph, and pie diagram, cube, sphere and block piles, contour, halchures, plastic shading, physiographic maps and diagrams, climatic maps and simple map drawing from air photo. (Fall, Spring)

324 Maps and Diagrams. 3 hours.
For course description, please see Geographic Techniques.

410 Cartography II. 3 hours.
For course description, please see Geographic Techniques.

415 Air Photo Interpretation. 3 hours.
For course description, please see Geographic Techniques.

METEOROLOGICAL TECHNOLOGY

122 Aviation Meteorology. 3 hours.
The emphasis of the course will be on weather elements and their measurements; weather instruments, weather codes needed by aviators; weather effects upon flying and weather hazards of aviation. (Fall)

222 Observational and Analytical Meteorology. 3 hours.
Prerequisite: Geography 122 or consent of

instructor.
An intensive course in weather instrument reading, synoptic weather observations and analysis of weather maps and charts. (Spring)

422 Climatology. 4 hours.
For course description, please see Physical Geography.

GEOLOGY (Geophysics and Hydrology courses have Geology listings)

102 Introduction to Physical Geology. 3 hours.
A general introductory course in geology for non-science majors. May be used to satisfy a requirement in the science area. Subjects discussed include rocks and minerals, geologic time, geologic processes, landforms, the oceans, solid earth phenomena, global tectonics, natural resources and environmental geology. Associated laboratory work (Geology 113) is optional depending on the program requirements of the student. (Fall, Spring, Summer)

103 General Geology. 3 hours.
The subject of this introductory course is the Earth, including its materials, internal and external processes, physical resources, settings in space and time and geologic environmental considerations. Contains integrated laboratory. (On Demand)

111 Physical Geology. 3 hours.
Corequisite: Geology 113.
The introductory course for majors and minors in geology and students in other science and technical areas. Subjects discussed include rocks, minerals, soils, geologic time, surface geologic, processes, structural geology, landforms, earthquakes and the earth's interior, hydrology, global tectonics, environmental and economic geology. (Fall, Spring)

112 Historical Geology. 3 hours.
Prerequisite: Geology 102 or 102-K, or Geology 111.
The study of the history of the earth. Major land, sea and life patterns throughout geologic time are stressed. Topics discussed include the development of geology as a science, nature and significance of the rock and fossil record, geologic time, basic stratigraphic relationships, theories concerning the origin of the earth and solar system, prehistoric life, paleogeography and global tectonics. Associated laboratory work (Geology 114) is required for geology majors and minors; optional for other students. (Spring)

113 Physical Geology Laboratory. 1 hour.
Prerequisite or corequisite: Geology 102, 102-K or 111.
Laboratory work in geology designed to accompany Geology 102 or 102-K and Geology 111.
Minerals, rocks, topographic maps, geologic maps and aerial photographs are studied. Optional for students enrolled in Geology 102; required for students enrolled in Geology 111. (Fall, Spring, Summer)

114 Historical Geology Laboratory. 1 hour.
Prerequisite or corequisite: Geology 112.
Laboratory work designed to accompany Geology 112. Fossil specimens, geologic maps and sedimentary rocks are studied. Optional for non-science majors enrolled in Geology 112; required for geology majors and minors or other science students. (Fall, Spring)

308 Structural Geology. 4 hours.
Prerequisites: Geology 111 and Mathematics 100 or 118.
Study of the deformation of the Earth's crust. Subjects discussed include: the behavior of rock in various states of stress; the mechanics, characteristics, occurrences and resulting structural and topographic features of the major processes of fracturing (jointing), faulting and folding; mountain building and plate tectonics; major structural regions, especially those of North America. (Spring)

309 Structural Geology Laboratory. 2 hours.
Prerequisite or Corequisite: Geology 308.
Laboratory work to accompany Geology 308. Included are the graphical and mathematical solution of structural problems, the interpretation of geologic structure from topographic and geologic maps and photographs and the preparation of geologic maps cross-sections and block diagrams. (Spring)

310 General Hydrology. 3 hours.
(Cross-listed with Geography and Engineering Technology) For course description, please see under Hydrology. (Fall)

325 Introduction to Minerals and Rocks. 3 hours.
Prerequisite: Geology 111 or 102 or 102-K and some knowledge of Chemistry.
The sight identification of common minerals and rocks is stressed. The description, origin, classification, economic uses and occurrences of the major mineral and rock groups are discussed. Appropriate rock and mineral specimens are examined in the laboratory. (On Demand)

330 Mineralogy. 4 hours.
Prerequisites: Geology 111 and some knowledge of Chemistry.
The systematic study of minerals. Includes the subjects of crystallography, the chemistry of minerals, the physical properties of minerals, the classification of minerals and the origin, characteristics and occurrence of the major mineral families. Crystal models, crystals and mineral specimens are studied in the laboratory. (Fall)

350 Petrology. 4 hours.
Prerequisite: Geology 330.
The study of the origin, characteristics, occurrence and classification of major rock types. Igneous and metamorphic rocks receive emphasis. Hand specimens of representative rocks are studied in the laboratory. (Spring)

380 Introductory Field Techniques. 2 hours.
Prerequisite: Geology 308.
Techniques for the conduct of geologic field studies are introduced and practiced on and near campus. Approximately one classroom hour and two field hours a week will be required. (Spring, Alternate Years)

405 Paleontology. 4 hours.
Prerequisites: Geology 112 and Biology 148-9 or permission of instructor.
A basic course in paleobiology including the nature of the fossil record, preservation, basic factors and theories relating to the origin and development of living systems and the processes of evolution, the species concept, systematics and paleoecology. The phylogenetic relationships and geologic history of major invertebrate taxa with a significant fossil record are also studied. Laboratory work includes the examination, description and classification of fossil specimens. (Fall)

411 General Oceanography. 3 hours.
Prerequisite: Geology 325 or 350 or permission of instructor.
A course in basic fundamentals pertaining to the geological, chemical, physical and biological aspects of the marine environment. Topics for discussion include the topography, structure and history of the ocean basins and their margins, ocean waters and oceanic circulation, tides and waves, marine geochemistry, ocean sediments and sedimentation, near-shore geologic processes and the ocean as a biogeochemical system. The resources of the ocean and the influence of man are also considered. (Spring, Alternate Years)

415 Environmental Geology. 3 hours.
Prerequisite: Geology 111-113 or Geography 106-108 and permission of instructor.
The interrelationships of geologic processes, earth materials and human activities. Assessment of geologic factors with respect to site selection, energy production, land use, waste disposal, planning, water resources, engineering practices and the recognition and control of geologic hazards. Laboratory exercises stress the application of geologic knowledge to specific environmental situations. (Fall)

420 Geomorphology. 4 hours.
(Cross-listed with Geography)
Prerequisite: Geography 106 or 106-K, 108 or 108-K, or Geology 102 or 111 and 113.

421 Advanced Geomorphology. 3 hours.
(Cross-listed with Geography)
Prerequisite: Geology-Geography 420.
Course emphasis is on landform development under processes associated with running water. Principal topics are: climate and geomorphic processes, weathering, the drainage basin as a geomorphic unit, water and sediment in channels, channel form, hillslope characteristics, drainage pattern evolution, channel changes with time and evolution of hillslopes. (Alternate Years)

424 Field Geology. 7 hours.
Prerequisites: Geology 111, 112, 113, 308 and 330.
This is a six-weeks summer field course in geology. (On Demand)

430 Optical Mineralogy. 3 hours.
Prerequisite: Geology 330.
A study of the optical constants and phenomena exhibited by and characteristic or crystalline mineral materials. Topics covered include the behavior of light in crystalline solids, the origin and nature of interference colors, refractive index, birefringence, optical character and optical identification of minerals. Laboratory work concerns techniques employed with the petrographic microscope and the use of the microscope for mineral identification. (Spring, Alternate Years)

450 Stratigraphy-Sedimentology. 3 hours.
Prerequisites: Geology 350, Geology 405.
The origin, characteristics, occurrence and classification of sedimentary rocks, the processes of sedimentation and the characteristics and relationships of sedimentary strata including stratigraphic principles and practice. Representative rock specimens are studied. (Spring)

465 Geophysics. 3 hours.
Prerequisite: Geology 111 and one year of college Physics or instructor permission.
For course description, please see Geophysics. (On Demand)

467 Exploration Geophysics. 3 hours.
For course description, please see Geophysics. (Fall)

470 Tectonics. 3 hours.
Prerequisite: Geology 308.
Plate Tectonics is the unifying theory of modern earth sciences. It explains the origin and evolution of the Earth's surface features. The theory is studied in detail and its historical development outlined, stressing the contribution of previous hypothesis and research (i.e., continental drift, sea-floor spreading, paleomagnetics, magnetic reversals, geosynclines, etc.). (Fall)

475 Special Topics in Geology. 1-3 hours.
Prerequisite: Permission of instructor.
A lecture-discussion course in which advanced or special topics in geology are considered in detail. (On Demand)

490 Senior Seminar in Geology. 1 hour.
Prerequisite: Senior standing and permission of instructor.
A discussion course in which major concepts in geology and topics of significant interest are considered. Oral reports by students are presented. (On Demand)

GEOPHYSICS

465 Geophysics. 3 hours.
(Cross-listed with Physics)
Prerequisite: Geology 111 and one year of college Physics or instructor permission.
The basic fundamentals of general and exploration geophysics. The initial topics discussed include the origin of the earth and solar system, the earth's interior, geochronology, gravity and isostasy, seismology, the earth's heat, geomagnetism, upper atmosphere, continents and ocean basins, ridges and island arcs and plate tectonics. The theory and applications of exploration geophysics are also covered, especially gravity, magnetic and seismic methods. (On Demand)

467 Exploration Geophysics. 3 hours.
Prerequisite: Geology 308 or permission of instructor.
The basic fundamentals of general geophysics will be introduced. Then instruction and practical experience in the major methods of exploration geophysics will be covered including some field experience. The methods used will include gravity, magnetic, seismic and electrical methods. (Fall)

HYDROLOGY

310 Hydrology. 3 hours.
(Cross-listed with Geography and Engineering Technology).
In this course emphasis is given to descriptive and quantitative hydrology. The hydrologic cycle, precipitation, evaporation and transpiration will be covered under descriptive hydrology. Hydrographs, runoff relations, ground water and storage routing will be covered under quantitative hydrology. Considerations will be given to use and management of water as a resource. (Fall)

375 Introduction to Water Resources. 3 hours.
Prerequisite: Geology 310 or ET 280 or consent of instructor.
Recent advances and the present state of water resources; water resources planning and development; management and administration. Priorities in water resources research. Selected case histories. (Spring)

415 Environmental Geology. 3 hours.
For course description, please see under Geology.

424 Field Geology. 7 hours.
For course descriptions, please see under Geology.

438 Advanced Hydrology. 4 hours.
Prerequisite: Geology 310, Geology 375, Engineering Technology 352, Math 237.
An advanced course in hydrology. Theoretical treatment of quantitative hydrology including discussion of principles of water resources system analysis. Course includes lab work on hydrological problems. (Spring)

440 Hydrogeology. 3 hours.
Prerequisite: Geology 310 or consent of instructor.
Origin, occurrence and movement of ground water; water wells and aquifer evaluations; exploratory investigations; quality of ground water supplies; legal aspects. (Spring)

458 Statistical Hydrology. 3 hours.
Prerequisite: Geology 375, Math 203.
Introduction to the probability theory and mathematical statistics. Their applications to measurement, analysis and synthesis of hydrological processes. (Fall)

468 Hydrologic Systems. 3 hours.
Prerequisite: Geology 375, Math 227 and 240.
Application of systems concepts to simulate and analyze the hydrologic cycle and its components in terms of various deterministic, probabilistic, stochastic, lumped, distributed, linear and non-linear mathematical models for the purpose of planning and designing water resources projects. (Fall)

488 Advanced Water Resources Science and Technology. 3 hours.
Prerequisite: Geology 438, 458 and 468. Math 331.
An advanced interdisciplinary course on water resources planning, design, development, management and technology. Water law, national water policy. (Spring)

490 Senior Seminar in Geology. 1 hour.
For course description, please see Geology.

GRADUATE COURSES IN GEOGRAPHY

500 Introduction to Geographic Research. 3 hours.

501 Geography, Science, Civilization. 3 hours.

502 Geographic Techniques for Field Investigations. 3 hours.

504 Historical and Philosophical Bases of Geography. 3 hours.

505 Biogeography. 3 hours.

510a Selected Topics in Geography. 3 hours.

510b Selected Topics in Geography. 3 hours.

510c Selected Topics in Geography. 3 hours.

521 Advanced Studies in Geomorphology. 3 hours.

522 Advanced Studies in Climatology. 3 hours.

524 Meterology for Science Teachers. 3 hours.

525 Advanced Political Geography. 3 hours.

530 Selected Problems in Cultural Geography. 3 hours.

532 Studies in Geographic Exploration. 3 hours.

534 Historic Preservation Planning: Application. 3 hours.

540 Advanced Regional Geography. 3 hours.

541 Seminar in Tropical Geography. 3 hours.

550 Advanced Studies in Economic Geography. 3 hours.

560 Settlement Geography. 3 hours.

571 Quality of Life: Environmental Problems and Ecological Solutions. 3 hours.

580 Problems in Urban Geography. 3 hours.

584 Advanced Planning. 3 hours.

585 Advanced Studies in Population Geography. 3 hours.

590 Experimental Design and Data Analysis. 3 hours.

595 Planning Practicum. 3 to 6 hours.

599 Thesis Research. 1 to 6 hours.

GRADUATE COURSES IN GEOLOGY

511 The Dynamic Earth. 3 hours.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

THOMPSON COMPLEX, CENTRAL WING, ROOM 357

Professor Robert C. Bueker, Head

Professors: C. Davis, B. Detwiler, W. Feibes, W. Jones, J. Stokes, M. Watson, C. Wells
Associate Professors: J.Barksdale, R. Crawford, J. Crenshaw, R. Detmer, G. Downing, P. Lowman, K. Wallace, R. York
Assistant Professors: J. Brevit, G. Downing, O. Flener, P. Hooper, S. Jacobs, R. Krenzin, G. Powers, L. Pulsinelli, C. Reagles, D. Wheat
Instructors: R. Bywater, V. Hanks, J. Jander, R. Stamper, B. Wilson

It is clear that our society needs many more mathematically literate and educated people than are now available. While the importance of mathematical techniques and insights in the physical sciences has been traditional, recent developments in the biological and social sciences have made clear the great contributions that mathematics can make in these areas of study.

Mathematics courses at the University are designed with the interests and needs of varying groups of students in mind. Majors and minors are available to those planning to pursue careers in secondary teaching as well as to those whose preparation is being directed toward positions in business and industry or toward further work in mathematics at the graduate level. In addition, several courses are offered to meet the demands for training of a mathematical nature by students whose major educational objectives are not directly related to mathematics.

Computer science courses offered by this Department are also designed to meet the needs of varying groups of students. The Computer Science program has been designed to meet three objectives: service to the community, qualification for professional and technical careers in government and industry, and preparation for graduate study. The program provides for the acquisition of marketable knowledge and skills with a major in each of the following areas: scientific applications of computers, systems programming and business applications. In addition, the department offers an undergraduate minor and service courses for students from other areas.

All majors and minors are expected to work closely with their departmental advisors in planning their degree program. Physics 205 and 206 are strongly recommended for mathematics majors.

MAJOR IN MATHEMATICS

A major in mathematics (reference number 728) requires a minimum of 32 semester hours and leads to a Bachelor of Arts degree. The foundation for an undergraduate major in mathematics is provided by a two-year sequence of four courses (126, 227, 307, 327) that requires a total of seventeen semester hours. In addition to the foundational sequence, the student majoring in mathematics is required to complete five mathematics courses (15 semester hours) numbered 300 or above. The five courses selected are determined by the student's career aspirations—subject to the following restrictions:

1. The following courses are required: MATH 317; and either 405, 431, 435 or 450.
2. At least one of the following sequences must be completed: MATH 317-417, 323-423; 329-429; 329-470; 331-435; 431-432; 431-450; 405-406.
3. The student pursuing secondary school certification is required to complete MATH 323.
4. It is recommended that the student preparing for graduate study in mathematics complete MATH 417, 432, and 439.
5. It is recommended that the student preparing for a career in government or industry complete six semester hours from MATH 331, 431, 432, 435, 450; and six semester hours from MATH 329, 405, 406, 429, 470.

The mathematics major should be advised of the importance of supporting courses from the area of Computer Science. The student majoring in mathematics is required to elect CPR S 240 in the general education component (Category A or F) of his program.

MAJOR IN COMPUTER SCIENCE

The major in computer science (reference number 629) requires a minimum of 30 semester hours and leads to a Bachelor of Science degree. Besides the required computer science course work, English 207, at least 12 semester hours of mathematics and an approved second major or minor depending on which of the following options is selected are required.

Scientific Applications Option: CPR S 240, 241, 242, 340, 348, 405, 442; A Math minor which includes MATH 126, 227, 307, 329; Physics 205, 206 or 201, 202; English 207.

Systems Programming Option: CPR S 240, 241, 242, 340, 342, 348, 442, 444, 445; A Math minor which includes MATH 126, 227, 307, Physics 205, 206 or 201, 202; English 207. MATH 329 is recommended.

Business Applications Option: CPR S 240, 241, 242, 340, 342, 343, 348, 442; At least 12 semester hours of mathematics which includes MATH 126, 203; Economics 202, 203; English 207; A minor in Accounting or Business Administration or a major in Economics.

With the approval of the student's advisor, one or two of the following mathematics courses may be included in the 30 hours required for the computer science major: MATH 317, 327, 331, 429, 470.

(Note the following courses are required in all options: CPR S 240, 241, 242, 340, 348, 442; English 207; MATH 126.)

MINOR IN MATHEMATICS

A minor in mathematics (reference number 417) requires a minimum of 18/21 semester hours. The foundation for a minor in mathematics is provided by the sequence of courses numbered 126, 227, 307 that requires a total of thirteen semester hours.

The student who elects a minor in mathematics certifiable for secondary school teaching is required to complete at least twenty-one semester hours of course work. In addition to the foundational sequence (126, 227, 307) this student is required to complete:

1. MATH 323; and
2. either a 300-level mathematics course or CPR S 241.

The undergraduate student minoring in mathematics and planning to pursue a Master of Arts in Education with either a graduate major or minor in mathematics is advised to include MATH 317 in his undergraduate program.

The student who elects a minor in mathematics but does not plan to teach is provided a noncertifiable minor that requires at least eighteen semester hours of course work. In addition to the foundational sequence (126, 227, 307), this student is required to complete either:

1. MATH 327;

or 2. six semester hours of mathematics numbered 300 or above;

or 3. three semester hours of mathematics at the 300-level and CPR S 241.

MINOR IN COMPUTER SCIENCE

The minor in computer science (reference number 341) requires a minimum of 18 semester hours. Included must be CPR S 240, 241, 242, 343 or 348, 442 and an additional 300 or 400-level computer science course. An introduction to the calculus, MATH 119, 120 or 126 is required.

SPECIALIZATION IN MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL

Students who are working toward junior high certification may receive a 25 hour major, a 21 hour minor, or a 15 hour semi-major in mathematics. The 25 hour major is satisfied by either of the following sequences of courses:

I. MATH 213, 118, 126, 227, 307, 323; and either 309, 315 or CPR S 240.
II. MATH 213, 126, 227, 307, 323, CPR S 240; and three semester hours of mathematics numbered 300 or above.

The 21 hour minor requirements are the same as those listed for the minor in mathematics certifiable for secondary school teaching. The semi-major of 15 hours consists of MATH 213, 118, 126; and either MATH 303 or CPR S 240.

MATHEMATICS FOR ELEMENTARY TEACHERS

MATH 211, 212, 213, 303 and 413 are for elementary education majors; MATH 213 and 303 are also part of the program for junior high majors. Elementary education majors are required to complete one of the two sequences MATH 211-212, or 213-303; these majors are encouraged to work closely with their advisors and, if possible, choose the latter sequence.

GRADUATE DEGREE PROGRAMS

The Department of Mathematics and Computer Science offers graduate work in mathematics leading to the following degrees: Master of Science and Master of Arts in Education with a major in mathematics. Several teaching assistantships are available for qualified graduate students. For further information see the Graduate College Bulletin or contact the Dean of Graduate College.

COURSES OF INSTRUCTION

(Courses numbered below 126 are not applicable toward a major, and courses numbered below 126 are not applicable toward a minor except when noted below.)

055 Basic Mathematics and Applications (Precollege). 3 hours.
Emphasis is placed on remediation—to assist students whose background in mathematics is inadequate and to bring their knowledge to or near college entrance level. (Fall, Spring)

100 Intermediate Algebra. 4 hours.
This course is for those students needing algebra who do not have the prerequisites for Math. 118 or 116. One year of high school algebra or Math. 055 is recommended as preparation. Sets, functions and fundamental operations of algebra are among the topics covered. (Fall, Spring, Summer)

101-102 (See 211-212)

103 (See 213)

105 Trigonometry. 2 hours.
Prerequisite: Math. 100; or, 2 credits of high school algebra.
Trigonometric functions, graphs, identities, solution of triangles. (Both bi-terms, Fall and Spring)

109 General Mathematics. 3 hours.
This is a terminal course for non-science majors and is suggested for the student that has satisfactorily completed minimum high school mathematics requirements and who needs no further work in algebra. Topics include: sets, logic, introduction to probability and consumer mathematics. (Fall, Spring, Summer)

115 Finite Mathematics. 3 hours.
Prerequisites: Math. 100; or, two credits of high school algebra and one credit of geometry.
Combinations and permutations, applied probability, expected value: Selected topics in finance, game theory and linear programming, with emphasis on decision-making. (Fall, Spring)

116 Fundamentals of College Algebra. 3 hours.
Prerequisites: Math. 100 or two years of high school algebra.
Selected topics on algebra, sets, matrices, functions, graphs, logarithms and systems of equations. No trigonometry is included. This is the first of a two course sequence which includes applications from the management sciences. (Fall, Spring, Summer)

118 College Algebra and Trigonometry. 5 hours.
Prerequisites: Math. 100; or, two credits of high school algebra and one credit of geometry.
Real number system; algebraic manipulations and solutions of equations and inequalities; absolute value; exponential and logarithmic functions; trigonometry; systems of equations; complex numbers. (See Department Head concerning applying toward a minor). (Fall, Spring)

119 Fundamentals of Calculus. 4 hours.
Prerequisite: Math. 116.
An introduction to calculus designed for only the non-science and non-technical major. Applications are directed toward the management sciences and related areas. This course cannot be used in a major or minor in mathematics. (Fall, Spring)

120 Elements of Calculus I. 3 hours.
Prerequisites: Math. 118 or permission of instructor.
Introductory analytic geometry, limits, differentiation and integration and applications. This is the first of a three-semester sequence for students needing calculus techniques who will not be math majors or minors. (Fall, Spring)

126 Calculus and Analytic Geometry I. 4 hours.
Prerequisite: Math. 118 or permission of instructor.
This is the first of a sequence of courses which present a unified treatment of plane and solid analytic geometry and differential and integral calculus. (Fall, Spring, Summer)

203 Statistics. 3 hours.
Prerequisite: Math. 118 or permission of instructor.
Introduction to permutations, combinations and elementary probability theory. The analysis of data by means of frequency distributions and the statistics which describe them. The binomial and normal probability distributions. Statistical inference. Emphasis is on applied real world problems. Not accepted for credit toward a mathematics major nor minor. (Spring)

211-212 (Formerly 101-102) **Mathematics for Elementary Teachers I and II.** 3 hours each.
Prerequisite: General Education Math Requirement.
(For elementary education majors only)
Elementary work with sets, modular arithmetic, elementary probability and statistics, elementary study of the real number system, properties of operations, algorithms of arithmetic, relations, systems of numeration, elementary number theory, geometric concepts developed intuitively. (Fall, Spring, Summer)

213 (Formerly 103) **Elementary Teachers Mathematics.** 3 hours.
(For elementary education or junior high majors only.)
Elementary study of real number system;

properties of operations and relations; algorithms for the operations; numeration systems; functions. (Fall, Spring)

220 Elements of Calculus II. 3 hours.
Prerequisite: Math. 120.
Composite, exponential, logarithmic and trigonometric functions. Conic sections. Calculus in two dimensions. (Fall, Spring)

227 Calculus and Analytic Geometry. II. 5 hours.
Prerequisite: Math. 126.
The continuation of 126. (Fall, Spring)

237 (See 307)

300 Foundations of Mathematics. 3 hours.
Prerequisite: Math. 307 or permission of instructor.
Logic and sets are discussed rigorously and the deductive nature of mathematics is emphasized. The natural numbers are developed axiomatically and embedded in the integers. If this course is elected by the student, it should be taken with, or immediately after, 327. (On Demand)

301 Seminar. 1 hour.
(On Demand)

303 Geometry for Elementary Teachers. 3 hours.
Prerequisite: Math. 212 or 213.
A study of elementary geometry using modern notation and vocabulary. Topics include nature of experimental and axiomatic geometry; points, lines and planes; curves and surfaces; congruence; measures; parallelism and similarity; introductory coordinate geometry. For elementary education or junior high majors only. (Spring)

307 (Formerly 237) **Calculus and Linear Algebra.** 4 hours.
Prerequisite: Math. 227.
Vector spaces: systems of linear equations; multiplication, addition, inverses, rank equivalence and similarity of matrices; introduction to linear transformations; quadratic forms; characteristic roots; eigenvectors; motion in R^3. (Fall, Spring)

309 Development of Mathematics. 3 hours.
Prerequisite: Math. 307 or permission of instructor.
Historical development of elementary mathematics from ancient times to the 20th Century with an emphasis on historically important problems. Provides knowledge and appreciation background useful in the classroom. This course cannot be accepted as part of the 32 hour requirement for the Arts and Science major. (1st Bi-term, Spring)

315 Theory of Numbers. 3 hours.
Prerequisite: Math. 307.
A study of the arithmetic of the integers divisibility, prime numbers, factorization, diophantine equations, congruences, quadratic residues. (1st Bi-term, Fall)

317 Introduction to Algebraic Systems. 3 hours.
Prerequisite: Math. 307.
Introduction to groups, rings, polynomial rings, integral domains, and fields. (Fall, Spring)

320 Elements of Calculus III. 3 hours.
Prerequisite: Math. 220.
Introduction to differential equations, polar coordinates, infinite series, Fourier series, Laplace Transforms. (Spring)

323 Geometry I. 3 hours.
Prerequisite: Math. 307 or permission of instructor. First of a two-semester sequence. Beginning with a re-examination of elementary Euclidean Geometry, the courses include a study of absolute plane geometry and the parallel postulate, which leads to an axiomatic treatment of hyperbolic geometry and related topics. (Every Fall, Summer of even years)

327 Multivariable Calculus. 4 hours.
Prerequisite: Math. 307.
Topics in real-valued functions of several variables including directional derivatives, implicit functions, gradient, Taylor's Theorem, maxima, minima, and Lagrange Multipliers. Differential calculus of vector-valued functions including chain rule and the Inverse Function Theorem. Multiple integrals, line integral, surface integrals, Stokes' and Green's Theorems. (Fall and Spring)

329 Probability and Statistics I. 3 hours.
Prerequisite: Math. 327 or permission of the instructor.
Introduction to combinations and permutations; elementary theory of probability; discrete and continuous probability distributions; mathematical expectations and moments; moment generating functions; sums of random variables; the central limit theorem. (Fall)

331 Differential Equations. 3 hours.
Prerequisite: Math. 227.
(Recommended corequisite: Math. 307.)
Methods of solution of differential equations; existence and nature of solutions; systems of differential equations; application; numerical solutions. (Fall, Spring)

370 Decision Theory. 3 hours.
Prerequisite: Math. 118 and consent of instructor. Basic concepts of probability and random variables. Important and uncomplicated mathematical notions such as set, function and convexity. Emphasis on decision making under uncertainty, utility theory, uncertainty due to ignorance of the state of nature and computation of Bayes strategies. Not accepted for credit toward math. major. (On Demand)

401 Topics in Mathematics for the Junior High Teacher. 1-3 hours.
Prerequisite: Permission of instructor.
Topics which support modern curriculum developments in junior high mathematics. These topics will include elementary number theory, algorithms, numeration, functions, transformations, and isometric transformations. (For junior high majors only.) (On Demand)

405 (CPR S 405) Numerical Analysis I. 3 hours.
Prerequisites: Math. 327, CPR S 240 or equivalent.
Roots of equations, linear operators, polynomial approximation and interpolation, numerical differentiation and integration. Computer solutions of problems will be required. (Fall)

406 (CPR S 406) Numerical Analysis II. 3 hours.
Prerequisites: Math. 405 and 331.
The solution of linear systems by direct and iterative methods, matrix inversion, the calculation of eigenvalues and eigenvectors of matrices. Initial and boundary value problems in ordinary differential equations. Computer solution of problems will be required. (Spring)

410 Methods of Applied Math. 4 hours.
Prerequisite: Math. 331.
Topics covered include: vectors, line and surface integrals and integral theorems, matrices and determinants. Fourier series and integrals. This course cannot be accepted as part of the 32 hour requirement for a mathematics major. (On Demand)

413 Algebra for Elementary Teachers. 3 hours.
Prerequisite: Math 212 or 303 or equivalent.
Properties of real numbers, linear equations and inequalities, systems of equations, complex numbers, algebraic structures. This course is for elementary education majors only. (On Demand)

415 Algebra and Number Theory. 3 hours.
Prerequisite: Math. 315 or 317.
An integrated survey of modern algebra and number theory. Topics include number systems, divisibility, congruences, groups and their application to number theory. (Summer of Even Years.)

417 Algebraic Systems. 3 hours.
Prerequisite: Math. 317.
Theory of groups. (Fall)

423 Geometry II. 3 hours.
Prerequisite: Math. 323.
An axiomatic development of hyperbolic geometry based on the hyperbolic parallel postulate and the absolute geometry developed in Math. 323, including an emphasis on contrasts with Euclidean geometry. (First bi-term, Spring; Alternate Summers)

429 Probability and Statistics II. 3 hours.
Prerequisite: Math. 329.
Sampling distributions from normal populations; point estimations, interval estimation; theory and application of hypothesis testing; regression and correlation; analysis of variance. (Spring)

431 Intermediate Analysis I. 3 hours.
Prerequisite: Math. 317.
Continuity; elementary topological concepts; differentiation; Riemann integral; infinite sequences and series. (Fall)

432 Intermediate Analysis II. 3 hours.
Prerequisite: Math. 431.
Sequences and series of functions; Euclidean n-space; continuity and differentiation of vector-valued functions of a vector variable; inverse and implicit function theorems. (Spring)

435 Partial Differential Equations. 3 hours.
Prerequisites: Math. 327 and 331.
Equations of first and second order; elliptic, hyperbolic and parabolic equations; Sturm-Liouville theory; applications to equations of mathematical physics using separation of variables and Fourier series. (Spring)

439 Topology. 3 hours.
Prerequisite: Math. 431 or permission of instructor.
Topological spaces; mappings; separation axioms; compactness; connectedness; arcwise connectedness; metric spaces. (Spring)

450 Complex Variables. 3 hours.
Prerequisite: Math. 327.
Complex number plane, analytic functions of a complex variable; integration; power series; calculus of residues; conformal representation; applications of analytic function theory. (Spring)

470 Introduction to Operations Research. 3 hours.
Prerequisite: Math 329 or consent of instructor.
Principles and techniques of operations research, including linear programming, queuing theory, inventory models, deterioration and replacement theory, sensitivity analysis and dynamic programming. (Spring)

475 Selected Topics in Mathematics. 1-3 hours.
Prerequisite: Permission of instructor.
A consideration of special topics to acquaint the advanced undergraduate student with significant problems and developments of current interest in mathematics. Topics may vary each semester offered. (Fall, Spring, Summer)

500 Readings in Mathematics. 3 hours.

501 Introduction to Probability and Statistics I. 3 hours.

502 Introduction to Probability and Statistics II. 3 hours.

503 Introduction to Analysis. 3 hours.

504 Computer Applications to Problems in Mathematics. 3 hours.

517 Topics from Algebra. 3 hours.

523 Topics from Geometry. 3 hours.

529 Mathematical Statistics I. 3 hours.

530 Mathematical Statistics II. 3 hours.

531 Advanced Differential Equations. 3 hours.

532 Real Analysis. 3 hours.

535 Advanced Applied Mathematics I. 3 hours.

536 Advanced Applied Mathematics II. 3 hours.

539 Topology II. 3 hours.

550 Complex Analysis. 3 hours.

560 Functional Analysis. 3 hours.

570 Advanced Topics in Operations Research. 3 hours.

590 Special Topics in Mathematics. 3 hours.

599 Thesis Research. 3 hours.

COMPUTER SCIENCE

140 BASIC Programming. 1½ hours.
Prerequisite: One year of high school algebra.
An introduction to the BASIC computer programming language and the use of algorithms for solving problems with computers. (Summer)

240 Introduction to Computer Science. 3 hours.
Prerequisite: Two credits of high school algebra.
A study of the algorithmic approach in the analysis of problems and their computational solution. A particular algorithmic language will be presented and employed to complete several computer projects in the laboratory portion of the course. Two hours lecture and one two-hour laboratory period per week. (Fall, Spring, Summer)

241 Computational Models and FORTRAN. 3 hours.
Prerequisite: CPR S 240.
Corequisite: Math. 119, 120, or 126.
This is a second course in computing for the student possessing previous programming experience. The course provides a thorough introduction to the FORTRAN programming language and emphasizes problem solving through the construction and interpretation of computational models from various disciplines. (Fall, Spring, Summer)

242 Assembly Language Programming. 3 hours.
Prerequisites: CPR S 241 or FORTRAN.
Computer structure, machine language, instruction codes, machine representation of numbers, indexing and indirect addressing, input-output, subroutines, linkages, macros, symbolic coding, assembler systems and programming techniques. Three hours lecture per week. (Fall, Spring)

245 Introduction to a Computer Programming Language. 1½ hours.
Prerequisite: Introduction to a programming language. Two years of high school algebra or Math 100.
The course is designed to introduce the syntax, advantages, limitations, and selected applications of a particular programming language such as APL, BASIC, FORTRAN, PASCAL, LISP, PL1, assembly language or job control language. Will not count toward a computer science major or minor if credit is received for an introduction to the same language in another course. May be repeated for up to 3 semester hours credit in the major area. (Fall, Spring, Summer)

340 Computer Organization. 3 hours.
Prerequisite: CPR S 242.
Basic digital circuits: gates, encoders and decoders, registers; memory organization; arithmetic and logical units; control units, secondary memory devices; interrupt hardware; logical design of a small computer; compute system configurations design and comparison. (Spring)

341 Problem Oriented Languages and Applications. ½ to 2 hours.
Prerequisite: Junior standing, an introduction to a higher level programming language, and/or consent of the instructor.
This course provides an introduction to a particular problem oriented computer language such as DECAL, a CAI language, Simscript or GPSS simulation languages or a package of programs for a particular application, such as the statistical packages BMD or COSAP, software for use of graphics terminals, text editors or the RSTS/E operating system programs. Topics may vary each semester offered. (On Demand)

342 Use of an Operating System. 3 hours.
Prerequisites: CPR S 241 or equivalent use of a large batch system.
A study of a large operating system emphasizing how one uses the available facilities. Topics include data set labels, catalogs, system utilities, libraries, job control language, remote job entry, and spooling. IBM'S OS/MVT is used for example and projects. (Fall)

343 File Management. 3 hours.
Prerequisites: CPR S 241 or FORTRAN.
File storage and addressing techniques. File processing including sorting and maintenance. File organization and retrieval methods. Magnetic tape and disc storage media. A suitable higher-level language such as COBOL is introduced in solving problems of graduated difficulty. (Fall)

345 Introduction to Numerical Methods. 3 hours.
Prerequisites: Math. 126 or 220, knowledge of a high-level language (FORTRAN, BASIC, PL/I).
Provides a computational oriented introduction to algorithms vital to scientific computer programming. Includes elementary error analysis and computational methods for roots of equations, matrices and linear systems of equations, interpolation, approximation, differentiation, integration, and ordinary differential equations. Efficient use of computer algorithms is emphasized. Both CPR S 345 and CPR S 405 cannot be counted toward the major or minor. (Spring)

348 Discrete Computational Mathematics. 3 hours.
Prerequisite: CPR S 241.
Finite and discrete algebraic structures, including Boolean algebras, directed and undirected graphs and the applications of these structures in computer science. (Fall, Spring)

349 Computers and Society. 3 hours.
Prerequisite: A general education mathematics course and junior standing.
This course provides an introduction to the historical development of information processing, the basic concepts of computer hardware and software, the social impact of computer usage, and the ways in which computers are applied. Several BASIC language programming projects are assigned though computer programming is not the primary objective. Not acceptable for credit in a computer science major or minor. (Fall, Spring, Summer)

405 (M405) Numerical Analysis I. 3 hours.
Prerequisites: Math 327, CPR S 240 or equivalent.
Roots of equations, linear operators, polynomial approximation and interpolation, numerical differentiation and integration. Computer solutions of problems will be required. (Fall)

406 (M406) Numerical Analysis II. 3 hours.
Prerequisites: CPR S 405, Math. 331.
The solution of linear systems by direct and iterative methods, matrix inversion, the calculation of eigenvalues and eigenvectors of matrices. Initial and boundary value problems in ordinary differential equations. Computer solution of problems will be required. (Spring)

442 Information Structures. 3 hours.
Prerequisites: CPR S 343 or 348.
Arrays, lists, trees, storage and file structures, sorting and searching techniques, dynamic storage allocation and garbage collection algorithms, PL/I capabilities: structures, pointers, bit and character strings, list processing, recursive programming for tree processing, use of macros. (Spring)

443 Data Base Management Systems. 3 hours.
Prerequisites: CPR S 242, 343, and 442.
This course examines the design and implementation of data base management systems. In addition to studying data organization and management, the course provides a survey of several data base management systems. Assigned projects will require use of several established data base systems such as the WKU Transportation Data Base and the WKU library system. (Fall)

444 Programming Languages. 3 hours.
Prerequisite: CPR S 442 or consent of instructor.
A survey of procedure-oriented programming languages such as ALGOL and

FORTRAN, and special-purpose languages such as LISP and SIMSCRIPT. Emphasis is placed on the syntactic and semantic structures present in these languages. (Fall)

445 Operating Systems Principles. 3 hours.
Prerequisites: CPR S 340, 342 and 442.
An overview of all aspects of a large, comprehensive operating system with particular emphasis on procedure libraries, storage management and protection, task scheduling, transient supervisory routines, and linkage editing. (Spring)

447 System Simulation. 3 hours.
Prerequisite: CPR S 241 and Math. 329.
A general introduction to computer simulation of theoretical systems and realtime processes. Abstract properties of simulations are examined and basic algorithms for lists, list structures and stochastic processes are introduced. General purpose simulation languages including GPSS and SIMSCRIPT are introduced. Each student is required to complete a term project simulation program. (Spring of Even Numbered Years)

475 Selected Topics in Computer Science. 1-3 hours.
Prerequisite: Permission of instructor.
A consideration of special topics which will acquaint the advanced student with significant problems and developments of current interest in computer science. (Fall, Spring)

476 Research Methods and Projects in Computer Science. 3 hours per offering. May be repeated for 6 hours.
Prerequisite: CPR S 442.
The languages, programming techniques and skills acquired in the sequence of core courses in the undergraduate program are applied to the analysis and design of computer-based systems. Top down design techniques are applied in one or more large-scale programs which require attention to the documentation, communications and interfacing of modules in a team project. These techniques are essential in most large-scale research applications of computers. (Spring)

504 Computer Applications to Problems in Mathematics. 3 hours.

510 Numerical Solution of Partial Differential Equations. 3 hours.

541 Mathematical Foundations of Computer Science. 3 hours.

543 Computer Information Systems Design. 3 hours.

544 Compiler Theory and Design. 3 hours.

547 Techniques of Mathematical Programming. 3 hours.

595 Advanced Topics in Computer Science. 1-3 hours.

599 Thesis Research and Writing. 3-6 hours.

DEPARTMENT OF PHYSICS AND ASTRONOMY

THOMPSON COMPLEX, CENTRAL WING, ROOM 246

Professor N. Frank Six, Head

Professors: W. Buckman, T. Coohill, D. Humphrey, G. Moore, J. Parks, M. Russell
Associate Professors: D. Bryant, R. Dawson, E. Dorman, K. Hackney, R. Hackney, E. Hoffman, M. Longmire
Assistant Professors: P. Campbell, A. Fennelly, R. Hall, C. Logsdon, C. Wolff
Visiting Assistant Professors: E. Bellis, T. Bohuski
Instructor: M. Robinson
Associate Instructor: G. Briggs

The Department of Physics and Astronomy offers a variety of programs to satisfy the professional goals and interests of the student. Each individual may select a course of study for preparation (1) to assume a position in industry or government laboratories, (2) to teach in the public schools or in junior colleges or (3) to enter advanced programs at the graduate level.

Modern facilities and equipment amplify the instructional program of the department. A "Learning Center" for individualized, self-paced instruction (the Keller Plan) is a recent addition. Space on the first three floors of the Thompson Science Complex—Central Wing—provides ample shop, classroom, laboratory and research accommodations, while the adjacent dome of the Hardin Planetarium permits astronomy laboratory exercises regardless of weather conditions.

A roof-top observatory houses the department's 32 cm Cassegrain reflector. Students of astronomy have access to twelve smaller telescopes including a portable 20 cm reflector and a 7.6 cm refractor.

The department operates a remote astronomical observatory located 10 miles from the campus under darker rural skies. The recent acquisition of a 61 cm reflector to be installed at this site is in line with our goal of maintaining quality education in astronomy through the continued intellectual development afforded by original research.

The diversity of interest of our faculty is a major strength of our undergraduate programs. Studies of quasars and related extragalactic objects are being conducted with ground-based optical facilities in Bowling Green, Florida, Arizona and Chile and using the IUE satellite, to detect wavelengths which do not penetrate earth's atmosphere. These enigmatic sources at the edge of the observable universe are under investigation by three professors who are funded by NASA and NSF.

A new laser spectroscopy laboratory has been equipped to permit investigations of energy exchanges in gas and liquid systems. With the support of the Oak Ridge National Laboratory, four professors have embarked upon research in the area of chemical physics.

Within the department, studies of photophysical processes related to the inactivation of enzymes are being initiated. Two professors are studying the effects of ultraviolet light on mammalian cells and viruses. A photobiology laboratory has been constructed with support from the Bureau of Radiological Health. An independent study of microtubules, structures in living cells thought responsible for movement, has been started with joint support by the Department of Biology. Another faculty member is supervising studies in space physics, relativity and cosmology, while still another analyzes Skylab Spectra in cooperation with colleagues at the Naval Research Laboratory to understand the physics of the upper atmosphere.

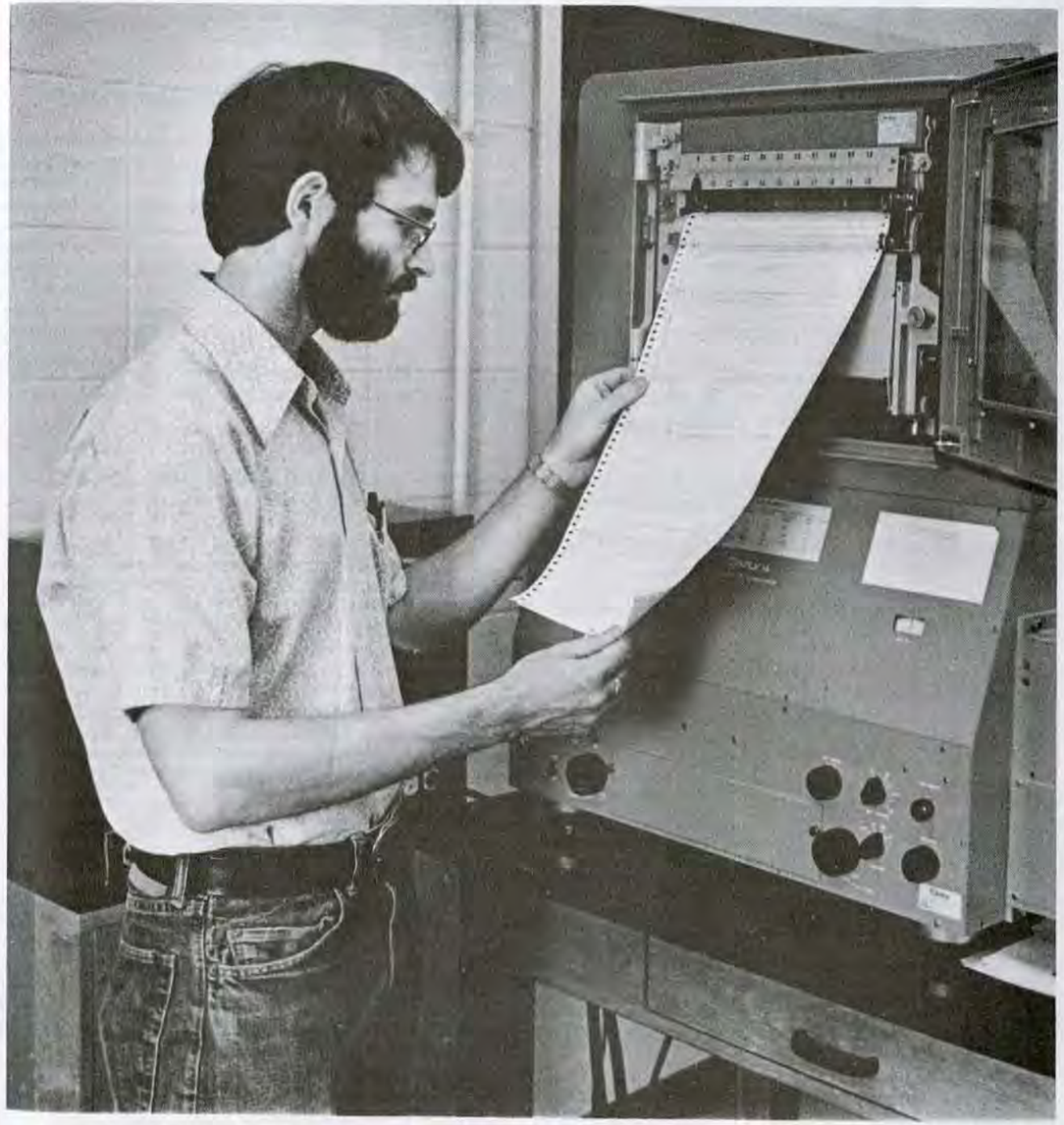
Large scientific instruments, with multifield usefulness are operated on an interdisciplinary basis. These include a scientific computing facility (PDP-11 and two PDP-8's), electron microscope, mass spectrometer, X-ray diffraction apparatus, Cary-14 spectrophotometer, nuclear magnetic resonance system, gas chromatographs, atomic absorption unit, grating spectrograph, radio isotope facility and a liquid scintillation counter.

Current programs in physics such as Project Physics and Quantitative Physical Science are an integral part of the program for teachers. A unique Library of Experiments exists to familiarize the student with measuring techniques, laboratory instruments and the experimental method. A "Teacher Center" has been equipped with science materials used in elementary and secondary instruction. Those kits are available to education majors

and in-service teachers. Well-equipped laboratories for electronics, optics, solid state, atomic and nuclear physics are available for undergraduate and graduate research.

The department sponsors a chapter of the Society of Physics Students (SPS), a self-governing group consisting of undergraduates and graduate students with an interest in physics. Majors and minors are encouraged to affiliate with this organization, which includes an honor society section, Sigma Pi Sigma.

Physics is the *basic science,* and all of the programs outlined below are designed to provide a sound knowledge of physical principles. The programs are also flexible to the extent that the serious student can select related courses in biology, chemistry, geology or astronomy to prepare for a career in interdisciplinary areas such as biophysics, space science, geophysics, oceanography, environmental science or chemical physics. Those who elect to major in physics, engineering physics or physics and astronomy are required to take an achievement test in physics and to score in the 33rd percentile or higher based on national norms before graduation. The examination is given at the start of every semester. Beginning with the junior year, students are required to take the examination each time it is offered until the passing score has been attained. Students planning an undergraduate major or minor in physics should consult Dr. D. L. Humphrey, Room 218, Science Complex, Central Wing.



MAJOR IN ENGINEERING PHYSICS

The major in Engineering Physics (reference number 659) requires a minimum of 30 semester hours of physics and 26 semester hours of engineering technology and leads to a Bachelor of Science degree. The program of study is designed to prepare students to assume positions in industrial or governmental laboratories and for students anticipating graduate studies in applied physics or engineering. Two options are available — one with emphasis in electrical engineering and the other with emphasis in mechanical engineering. For both options the following courses are required:

Physics—205, 206, 207, 208, 301, 302, 320, 340/303; plus 7 hours of electives from 330, 440, 441/404, 460/406, 470/407.
Math—126, 227, 307, 331, plus 6 hrs. electives.
Chemistry—120/121, 222/223.

Depending on the option chosen the following courses are also required:

Electrical: Eng. Tech—111, 121, 123, 201, 203, 251, 261, 263, 271, 273, 351, 353.
MECHANICAL: Engr. Tech—217, 232, 302, 312, 322, 337, 339, 352, 354.

MAJOR IN PHYSICS

The major in physics (reference number 754) requires a minimum of 30 semester hours and leads to a Bachelor of Science degree. (Required courses for students preparing for graduate studies in physics.)
Physics—205, 206, 207, 208, 301, 302, 320, 350, 398, 440, plus a minimum of 7 hours from 330, 340/303, 441/404.
Math—126, 227, 307, 331, 410 or 327.
Chemistry—120-121, 222-223.
Biology—148.
Research Tools—12 semester hours to be chosen from:
Foreign Language (French, German or Russian) ..... 6-12 hrs.
Computer Science ..... 3-6 hrs.
Statistics ..... 3-6 hrs.
Teacher certification is an option.
(Recommended courses for students preparing to teach physics in Junior or Senior High School.)
Physics—201, 202, 205, 206, 207, 208, 312, 325, 425; plus a minimum of 7 hours electives.

MAJOR IN PHYSICS AND ASTRONOMY

The major in physics and astronomy (reference number 757) requires a minimum of 35 semester hours and leads to a Bachelor of Science degree.
(Recommended courses for students preparing for graduate studies in astronomy or space sciences.)
Physics—205, 206, 207, 208, 320, 350, 440, 441 and 404.
Astronomy—214, 314, 414.
Math—126, 227, 307, 331, 410 or 327.
Chemistry—120-121, 222-223

AREA OF CONCENTRATION IN GENERAL SCIENCE

The area of concentration in general science (reference number 556) requires a minimum of 69 semester hours and leads to a Bachelor of Science degree. This sequence of courses is intended to certify the teacher in the area of general science at the junior or senior high school level. The four-year curriculum is found under the heading of General Science. The sequence cannot be substituted for major and minor programs without the required professional education courses. Recommended courses are: Physics 101 or Astronomy 104 or 106, Physics 201, 202, 207, 208, 312, 325 and 425; Biology 148/149, 158/159, 305/306, 318/319, electives—5 hours; Chemistry 120/121, 222/223, 314, 330; Geology 111, 113; Mathematics 118, 126.

AREA OF CONCENTRATION IN MATHEMATICS AND PHYSICAL SCIENCE

The area of concentration in mathematics and physical science (reference number 580) requires a minimum of 60 semester hours and leads to a Bachelor of Science degree. This sequence of physics courses is intended to certify the teacher in the area of mathematics and physical science at the junior or senior high school level. The sequence cannot be substituted for major and minor programs without the required professional education courses. Recommended courses are: Physics 101 or Astronomy 104 or 106, Physics 201, 202, 207, 208, 312, 325 and 425; Chemistry 120/121, 222/223, 314, 330; Geology 111, 113; Mathematics 118, 126, 227 and 307.

MINOR IN BIOPHYSICS

The minor in biophysics (reference number 329) requires a minimum of 18 semester hours.

This course sequence is intended to serve students of the life sciences, that is, students of biology, pre-meds and pre-dents, agriculture, environmental health, psychology, science teaching, environmental engineering, pre-vet, pre-pharmacy and pre-optometry. In general, this curriculum treats the physics of life processes and various applications of physics to biology and medicine. See the Biophysics section in this catalog.
Recommended Courses:
Physics—231, 207, 332, 208, 335 (BIOL 335), 315, 305, 431 (BIOL 431), BIOL 432.

MINOR IN PHYSICS

The minor in physics (reference number 435) requires a minimum of 18/21 semester hours. Two options are available. Recommended courses for a non-certifiable minor are: Physics 205, 206, 207, 208 and 315 or 320 plus two more 300 or 400 level courses in physics. Recommended courses for certification purposes are: Physics 201, 202, 205, 206, 207, 312, 325 and 425.

GRADUATE DEGREE PROGRAMS

The Department of Physics and Astronomy offers three graduate degree programs: the Master of Science in Physics, the Master of Science in Engineering Physics and the Master of Arts in Education (Physics Minor).

Graduate assistantships are offered through the Graduate College. For further information on program offerings and assistantships see the Graduate College Bulletin or contact the Dean of the Graduate College.

COURSE CATEGORIES

The courses offered by the Department of Physics and Astronomy belong to five categories according to clientele:

Adult Education
Courses which serve as continuing enrichment for the adult community; 0-50 level.

Non-Science Majors
General courses treating a selection of coordinated topics in sufficient depth to be beneficial to the non-science students; 100 level.

Science and Math Majors and Minors
Introductory courses for science and math students; mainly 200 level.

Education Majors and Minors
A. Upper division courses for prospective teachers; 300 and 400 level.
B. Graduate courses; 500 level.

Departmental Majors and Minors
A. Upper division courses for physics students; 300 and 400 level.
B. Graduate courses; 500 and 600 level.

COURSES OF INSTRUCTION

ADULT EDUCATION

40 Frontiers of Astronomy. 2 hours.
An adult education course for the purpose of continuing enrichment. Will include open discussion of topics of current interest, such as: the nature and extent of the observable universe, the evolution of the sun and its effects on the earth, interaction of mythology and astronomy, the question of UFO's, how the astronomer probes the universe, unusual stellar objects and their impact on our knowledge of the universe and the future of our space program. Opportunity for frequent use of telescopes will be provided. Class meetings will be held in the Hardin Planetarium. This course does not count toward credit for any degree. (On Demand)

50 Exploring the Universe. 2 hours.
An adult education course for the purpose of continuing enrichment. Will include open discussion of topics of current interest, such as: radio signals from our galaxy, pulsars, quasars, X-ray stars, black holes, the existence of life on other worlds, the evolution of a star, the origin of our solar system, space probes to the planets, telescopes and space photography, the importance of double stars and how the universe began. Instruction in the use of telescopes will be provided early in the course to allow frequent scheduling of viewing sessions. Class meetings will be held in the Hardin Planetarium, a theatre of the sky. Field trips will be made to radio and optical observatories. This course does not count toward credit for any degree.

NON-SCIENCE MAJORS

These courses do not count toward physics major credit.

100 Energy. 3 hours.
A one-semester survey of the concepts of energy applicable to the understanding of energy in our environment. Topics covered are: the nature of energy, sources, transmission, consumption, energy and the environment and prospects for the future. Experiments will be conducted as part of the classroom work. (Fall, Spring)

101 Concepts of Motion. 3 hours.
A one-semester introduction to motion and matter. Topics covered include the analysis of motion, Newton's Laws of motion, work, energy, the structure and properties of solids, liquids and gases, wave motion and sound. Laboratory experiments are an integral part of this course. (Fall, Spring, Summer)

102 Electricity and the Atom. 3 hours.
A one-semester course introducing the student to the nature of electricity and the atom. Topics covered include charge, electricity, simple circuits, magnetism, electromagnetism, atomic structure, simple nuclear structure, nuclear fission and fusion, radiation. Laboratory experiments are an integral part of this course. (Fall, Spring)

103 Light, Color and Vision. 3 hours.
A descriptive account of the nature and properties of light, color and the process of seeing, including descriptions of some important optical instruments, such as the eye, the camera and the telescope. Laboratory experiments are an integral part of the course. (Fall, Spring)

104 Astronomy of the Solar System. 3 hours.
An introduction to the properties of the sun and the bodies that revolve about it. Includes aspects of the sky, the earth's motion and time-keeping, the moon, eclipses, motions and physical features of planets and satellites. This course contains an integrated laboratory which includes planetarium demonstrations and evening observing sessions using telescopes. (Fall, Spring, Summer)

105 Concepts of the Physical World. 3 hours.
A one-semester introduction to the concepts of physics for elementary education majors. Topics include structure and properties of matter, mechanics, electricity, magnetism, heat, light and sound. Laboratory experiments are an integral part of this course. (Fall, Spring)

106 Astronomy of Stellar Systems. 3 hours.
A non-mathematical description of the physical properties of stars and stellar systems, including discussions of stellar structure and evolution, galaxies and theories of the structure of the universe. This course contains an integral laboratory which includes planetarium demonstrations and evening observing sessions using telescopes. (Fall, Spring)

109 Applied Physics for the Health Sciences. 3 hours.
A one-semester introduction to the physical principles involved in biological systems with emphasis placed on the practical aspects of physics as related to human health. This course is designed for students in Allied Health programs, Physical Education, Recreation, Health and Safety, and other disciplines dealing with human health. It does not count toward a minor or major in physics or biophysics, but does satisfy general education requirements. Laboratory experiments are an integral part of this course. (Fall, Spring)

130 Acoustics of Music and Speech. 3 hours.
The fundamental laws of mechanics and wave motion are studied with particular emphasis being placed upon their application to the production and control of music and speech. Laboratory experiments and field trips are an integral part of the course. Does not count toward credit for the physics major or minor. (Fall, Spring)

SCIENCE AND MATH MAJORS AND MINORS

201 College Physics I. 3 hours.
Prerequisites: High school algebra, geometry, and trigonometry of right triangles.
Corequisite: Physics 207 (Course and laboratory must be taken together or dropped together.)
An introductory course for students majoring in the physical sciences and related

areas such as engineering technology, computer science and secondary teaching certification. The purpose of the course is to provide a knowledge of physical principles, not to develop skill in solving problems. The following topics are covered: vectors, kinematics, dynamics, statics, work, energy, momentum, gravity, rotation of rigid bodies, vibrations, and waves (including sound). (Fall, Spring)

202 College Physics II. 4 hours.
Prerequisites: Physics 201.
Corequisite: Physics 208 (Course and laboratory must be taken together or dropped together.)
A continuation of Physics 201. The following topics are covered: electrostatics, electric field strength, electric potential difference, resistance and capacitance, DC circuits, magnetism, electromagnetic induction, electromechanical devices, simple AC circuits and light, i.e., reflection, refraction, lenses, mirrors, optical devices, interference and diffraction. (Fall, Spring)

205 University Physics I. 4 hours.
Corequisite: Physics 207 (Course and laboratory must be taken together or dropped together), and Math 126. It is recommended that high school physics and a strong high school mathematics background precede this course.
Provides the basic knowledge of mechanics with calculus required by physics, engineering, mathematics and chemistry majors. The subject is the description and causes of motion in our everyday world. The topics are translation, rotation, oscillation, wave motion in matter (including sound), gravity, heat and thermodynamics. Emphasis is on definitions, laws and principles and their use in solving problems. (Fall, Spring)

206 University Physics II. 4 hours.
Prerequisite: Physics 205.
Corequisite: Math 227; Physics 208 (Course and laboratory must be taken together or dropped together.)
A continuation of Physics 205 with the same emphasis. The topics covered are electricity, magnetism, geometric optics and physical optics. (Fall, Spring)

207 Laboratory for Physics 201, 205, 231.
1 hour.
Corequisite: Physics 201, 205 or 231.
Required for students enrolled in 201, 205 and 231. Approximately one two-hour lab per week. Students choose from physics and biophysics experiments on mechanics, heat, fluids and sound. (Fall, Spring, Summer)

208 Laboratory for Physics 202, 206, 332.
1 hour.
Corequisite: Physics 202, 206 or 332.
Required for students enrolled in 202, 206 and 332. Approximately one two-hour lab per week. Students choose from physics and biophysics experiments on electricity, magnetism, optics, atomic physics and nuclear physics. (Fall, Spring, Summer).

214 General Astronomy. 4 hours.
Permission of the instructor.
Corequisite: Math 126.
An introduction to stellar astronomy for science majors. Topics studied include distances, masses and luminosities of stars, stellar atmospheres and interiors; interstellar matter; local and exterior galaxies and cosmology. Three hours lecture and one two-hour laboratory each week. (Spring)

231 Introduction to Physics and Biophysics I. 3 hours.
Prerequisites: High School Algebra and Geometry.
Corequisite: Physics 207 (Course and laboratory must be taken together or dropped together.)
The first half of a basic course for students of the life sciences, covering the topics of mechanics, heat the thermodynamics, properties of matter, waves and sound. Emphasis is on an understanding of the physical principles operative in biological systems and on the application of physical methods in biology and medicine. (Fall, Spring, Summer)

332 Introduction to Physics and Biophysics II. 3 hours.
Prerequisite: Physics 231.
Corequisite: Physics 208 (Course and laboratory must be taken together or dropped together.)
The second half of a basic course for students of the life sciences, covering the topics of electricity, magnetism, light, optics, atomic and nuclear physics. Emphasis is on an understanding of the physical principles operative in biological systems and on the application of physical methods in biology and medicine. (Fall, Spring, Summer)

315 Applied Modern Physics. 3 hours.
Corequisite: Physics 305.
Prerequisites: Physics 201-202 or Physics 231-332.
An introduction to the modern physics experimental methods for the investigation of molecular, atomic, electronic and nuclear properties and events. (On (Demand)

305 Applied Modern Physics Laboratory.
1 hour.
Prerequisites: Physics 201-202 or 231-332.
Corequisite: Physics 315.
An introduction to modern physics experimental methods and apparatus. Laboratory investigations will be conducted by students on atomic, molecular, electronic and nuclear properties of matter. (On Demand)

320 Introductory Modern Physics. 3 hours.
Prerequisites: Physics 202 or 206 or 332; consent of the instructor and one semester of calculus.
Corequisite: second semester of calculus.
An introductory study of the breakdown of classical physics at the atomic level (quantization) and at high speeds (relativity). Emphasis is placed upon observable effects of the interaction between matter and radiation and the new theories created to explain these effects. The topics include: historical introduction; elements of special relativity; the nuclear atom; particle-like behavior of radiation; wave-like behavior of particles; the hydrogen spectrum and the Bohr theory; elements of quantum mechanics; magnetic properties of atoms and electron spin; the periodic table; vector model of the atom; spectra of hydrogen-like atoms; and other selected topics of modern physics. (Spring)

EDUCATION MAJORS AND MINORS

312 Laboratory Practice and Procedure.
1 hour.
Prerequisite: Physics 207 or 208.
A course designed to familiarize the prospective teacher with laboratory instruments and methods. Emphasis is placed upon developing experiments, learning to maintain and repair equipment and purchasing procedures. (Fall, Spring)

325 Current Programs in Physics. 3 hours.
Prerequisite: One year of college physics.
A systematic study of several current systems of organizing and presenting introductory physics. The prospective teacher will become familiar with various program materials, as well as explore the history and philosophy of physics. The student will compare these systems and consider adapting them to different classroom situations. (Fall)

401-402 Physicsl Science I and II. Each 3 hours.
Prerequisite: Permission of the instructor.
Systematic study of the primary physical properties of matter and forms of energy. Emphasis on measurement processes, symbolism, graphical analysis, algebraic calculations, dimensional analysis and coherent systems of units. For teachers and prospective teachers. (On Demand)

405 Astronomy for Teachers. 3 hours.
Selected topics in astronomy for elementary and secondary teachers. Does not count toward physics major credit. (Spring, Summer)

410 Physics for Elementary Teachers.
3 hours.
Prerequisite: Permission of the instructor.
A broad study, including laboratory experiences, of the areas of physics relevant to the teaching of science in the elementary school. This is a course for elementary teachers with a minimal science background. (Summer)

425 Modern Concepts of Physics. 3 hours.
Prerequisite: One year of college physics.
Current ideas in atomic and nuclear physics, astronomy and space physics, solid state and low temperature physics are discussed at such a level that the prospective teacher will have a good understanding of modern concepts in physics and will be able to explain them to students. This course includes demonstrations and experiments, field trips, seminars and occasional guest lectures. (Spring)

DEPARTMENTAL MAJORS AND MINORS

Experimental Physics Sequence.
Each—1 hour.
301—Electrical Measurements (Spring)
302—Atomic (Spring)
303—Electronics (Fall, Even Years)
404—Optics (Spring, Odd Years)
406—Solid State (Spring, Odd Years)
407—Nuclear (Spring, Even Years)
Except for 301, these laboratory courses match certain lecture courses. The lecture course will serve as corequisite to the given experimental physics course. Designed to teach the student, through doing, the laboratory techniques of experimental physics.

314 Observational Astronomy. 4 hours.
Prerequisite: Physics 214.
A study of the techniques of observational astronomy: photography, photometry, spectroscopy and radio astronomy. Topics include spherical astronomy, magnitude systems, telescope optics, data acquisition and analysis. Three hours lecture and one two-hour laboratory each week. (On Demand)

330 Thermodynamics. 3 hours.
Prerequisite: Math 331.
A study of thermodynamic systems, equations of state, entropy, Maxwell-Boltzmann and quantum statistics. (Spring, Even Years)

335 General Biophysics. 4 hours. (3 hour lecture; 1 hour lab.)
(Cross-listed as BIOL 335).
Prerequisites: Physics 231, 332; Biology 148; or permission of instructor.
An introduction to the major fields of biophysics in quantitative terms with stress on the physical techniques applied in biomedical practice and research. (Fall)

340 Circuit Theory and Electronics. 3 hours.
Prerequisite: One year of physics that includes either Physics 202 or 206; one year of calculus.
Corequisite: Physics 303.
This course is suitable for all science majors who will use electronic devices in their work. It is a study of circuit analysis, active devices (such as diodes, transistors, silicon controlled rectifiers) and integrated circuits. Particular emphasis is placed on design and use of simple power supplies, transistor circuits and operational amplifier circuits. (Fall, Even Years)

350 Analytical Mechanics. 3 hours.
Prerequisites: Physics 205, 206 and one year of calculus.
Corequisite: Math 331.
A study of classical mechanics including equations of motion, coordinate systems, the simple harmonic oscillator, damping forces, vector algebra, central forces, momentum and energy theorems. (Fall)

389 Practicum in Physics & Astronomy.
3 to 6 hours credit.
(May be repeated with Department approval)
Practical out-of-the-classroom experience in a supervised work situation. Application of basic knowledge and skills from student's major discipline or area of career interest, with opportunities in learning the social, psychological, cultural and communication aspects of work. Student is placed under the direction of a supervisor of a cooperating business, industry, agency or institution. Specific learning objectives and evaluation of student in one or more of the following formats: (1) Written reports, (2) Seminar presentation, or (3) Test over selected readings.

398 Seminar. ½ hour.
Prerequisite: Junior standing.
Majors must accumulate 1 hour of credit. (Fall, Spring)

399 Research Problems in Physics and Astronomy. 1 to 3 hours.
Prerequisite: Physics 320 and consent of the instructor.
Assigned reading or research for qualified undergraduates. May be repeated with change of content, but only three hours will count toward a major. (Fall, Spring, Summer)

409 Experimental Physics 7. Research Techniques. 2 hours.
Prerequisite: 2 years of college physics.
The practice of laboratory techniques most frequently required in experimental research. Includes drawing and fabrication of apparatus, glassblowing, design and operation of vacuum systems, technical photography and statistical treatment of data. (On Demand)

414 Introductory Astrophysics. 4 hours.
Prerequisite: Physics 320.
Corequisite: Math 331.
A broad survey of topics in solar system and stellar astrophysics. The course includes radiation theory, planetary and atmospheric physics, solar phenomena, the interplanetary medium, the physics of stellar atmospheres and interiors, stellar evolution, pulsars, the interstellar medium, galaxies, radio galaxies and quasars. (On Demand)

431 Radiation Biophysics. 4 hours (2 hours lecture; 2 hours lab.)
(Cross-listed as BIOL 431).
Prerequisites: Physics 201-202 or Physics 231-332.
A treatment of the properties of the various forms of radiations and their interactions with, and effects on, living matter. The laboratory offers training in the monitoring of ionizing radiations and in the techniques of radioactive isotopes as applied in biological and clinical work. (Spring)

440 Electricity and Magnetism. 3 hours.
Prerequisites: Physics 350 and Math 331.
The study of classical electricity and magnetism with emphasis on fields, potentials, conductors, dielectrics, steady currents and radiation. (Fall)

441 Optics. 3 hours.
Corequisite: Physics 404.
Prerequisites: One year of college physics and one year of calculus.
A study of geometrical and physical optics including wave propagation, refraction, dispersion, diffraction and polarization. (Spring, Odd Years)

450 Theoretical Mechanics. 3 hours.
Prerequisites: Physics 350, Math 331.
A study of rigid body motion, moving coordinate systems, Lagrange's equations, small vibrations and the special theory of relativity as applied to mechanics. (Fall)

460 Solid State Physics. 3 hours.
Corequisite: Physics 406.
Prerequisite: Physics 320.
An introductory course in the theory of solids including such topics as geometrical and X-ray crystallography, Maxwell-Boltzmann and Fermi-Dirac statistics, free electron theory of metals, Brillouin zones, band model of semiconductors and the Hall effect. (Spring, Odd Years)

465 Geophysics. 3 hours.
(Cross-listed as Geology 465).
Prerequisites: Geology 111 and one year of college physics or permission of the instructor.
The basic fundamentals of general and exploration geophysics. The initial topics discussed include the origin of the earth and solar system, the earth's interior geochronology, gravity and isostacy, seismology, the earth's heat, geomagnetism, upper atmosphere, continents and ocean basins, ridges and island arcs and continental drift. The theory and applications of exploration geophysics are also covered, especially gravity, magnetic and seismic methods. (Fall)

470 Nuclear Physics. 3 hours.
Corequisite: Physics 407.
Prerequisite: Physics 320.
The properties of the nucleus including radioactivity; radiation detectors; nuclear reactions; nuclear mass and size determination; alpha, beta, and gamma decay; nuclear models; particle accelerators; fission; and elementary particles. (Spring, Even Years)

475 Selected Topics in Physics. 1 to 3 hours.
Prerequisite: Senior standing and permission of the instructor.
Each topic is a course in directed study under the supervision of a faculty member. The following topics are contemplated: mathematical physics, plasma physics, wave motion, physical electronics and radio astronomy. Available for full credit in subsequent sessions with change of content. (Fall, Spring, Summer)

480 Quantum Mechanics. 3 hours.
Prerequisites: Physics 320, 350, 450.
A study of the fundamental principles of quantum mechanics including the hydrogen and helium atoms, the harmonic oscillator and the Schroedinger wave equation. (On Demand)

489 Internship in Physics & Astronomy.
3 to 6 hours.
(May be repeated with Department approval)
Practical out-of-the-classroom experience in a supervised work situation. Application of advanced knowledge and skills from student's major discipline or area of career interest, with opportunities in learning the social, psychological, cultural and communication aspects of work. Student is placed under the direction of a supervisor of a cooperating business, industry, agency or institution. Specific learning objectives and evaluation of student in one or more of the following formats: (1) Written reports, (2) Seminar presentation, or (3) Test over selected readings.

ASTRONOMY GROUP

104 Astronomy of the Solar System. 3 hours.

106 Astronomy of Stellar Systems. 3 hours.

214 General Astronomy. 4 hours.

314 Observational Astronomy. 4 hours.

405 Astronomy for Teachers. 3 hours.

414 Introductory Astrophysics. 4 hours.

GRADUATE COURSES

520 Atomic and Molecular Spectra. 3 hours.

530 Statistical Mechanics. 3 hours.

540 Electromagnetic Theory. 3 hours.

550 Classical Mechanics. 3 hours.

580 Quantum Theory. 3 hours.

598 Graduate Seminar. 1 hour.

599 Research. 1 to 6 hours.

660 Theory of Solids. 3 hours.

670 Theoretical Nuclear Physics. 3 hours.

675 Advanced Topics in Physics. 1 to 3 hours.

Courses which may be taken for graduate credit toward the M.A. in Education (Physics Minor):

501 Classical Development in Physics.
3 hours.

502 Modern Developments in Physics.
3 hours.

503 Physics Demonstrations and Laboratory Exercises. 3 hours.

505 Investigations in Physics. 3 hours.

PRE-DENTAL

ACADEMIC COMPLEX, ROOM 215
Professional Advisor: A. F. Godby

THOMPSON COMPLEX, NORTH WING, ROOM 307
Academic Advisor: Lowell W. Shank

Students planning a career in dentistry should follow the pre-dental curriculum at Western which is basically the same as that outlined for pre-medical students.

It is recommended that students planning a dental career complete the entire four-year curriculum and receive the Bachelor of Science degree before entering a dental college. Students so desiring may complete the first three years of pre-dental curriculum, substituting a year of satisfactory work in dental college for the fourth year, and receive the Bachelor of Science degree.

PRE-ENGINEERING

THOMPSON COMPLEX, CENTER WING, ROOM 218
Advisor: Douglas Humphrey

A two-year pre-engineering program is offered for students who wish to pursue an engineering degree in a specific branch of engineering at an accredited engineering school. By careful selection of the non-technical electives in consultation with their advisor, an additional two years will usually be sufficient for the students to complete the degree requirements at the engineering school of their choice.

A three-year pre-engineering program is also available for the engineering students who wish to provide more breadth to their education. During the three years at Western, students complete the general education requirements in addition to the pre-engineering curriculum, then transfer to an accredited engineering college where normally two additional years are spent completing the professional course requirements.

Freshman year: English 101, 102; Math 126, 227; Chemistry 120, 121, 222, 223; Engineering Technology 107 Industrial Education 102E (students with strong high school background may omit this course with advisor's consent); Humanities and Social Science electives—9 semester hours (selected in consultation with advisor).

A Bachelor of Science Degree in Engineering Physics is offered through the Physics and Astronomy Department—see that section of the catalog for details.

Associate and Bachelor Degree Programs in broadcast, civil, electrical, environmental and mechanical engineering technology are also offered—see Engineering Technology for details.

PRE-FORESTRY

ENVIRONMENTAL SCIENCES & TECHNOLOGY BUILDING, ROOM 254
Advisor: W. C. Normand

Students interested in forestry as a career may enter Western Kentucky University and complete a plan of study comparable to the first two years of a four-year forestry degree program. The program outlined is designed to qualify students to transfer into the forestry program at the University of Kentucky. This program will permit students with grades of C or better to transfer to the degree program of Bachelor of Science in Forestry without loss of time. Students desiring to attend schools other than the University of Kentucky should contact the pre-forestry advisor for specific requirements.

Freshman year: Chemistry 105, 106, 107, 108 or 120, 121, 222, 223; English 101, 102; Biology 148, 158, 159; Physics 101; Agriculture 110; Math 115 or 126 and restricted electives.

Sophomore year: English 207; Biology 248, 249, 348; Agriculture 250, 491; Health 171; Economics 202, 203; Speech 145; Engineering Technology 150 and restricted electives.

PRE-MEDICAL

THOMPSON COMPLEX, NORTH WING, ROOM 307
Advisor: Lowell W. Shank

The pre-medical curriculum has been developed over the years with two prime objectives in mind. The first objective is to provide the undergraduate student with an academic background which will enable him to succeed in the medical school of his choice. The second objective is to provide the proper scholastic credits for obtaining the Bachelor of Science degree after four years of study.

During the first two years of undergraduate work the pre-medical student should complete the majority of the basic science courses which constitute the minimal prerequisites for entrance into medical school. All science courses require laboratories and are as follows:

Biology 148, 158, 318; Chemistry 120, 222, 330, 340, 342; Mathematics 118, 126; Physics 231 and 332.

In addition to the basic science courses, the following subjects should be taken during the freshman and sophomore years:

English 101 and 102; Library Science 101; Physical Education 101 and 102. Electives in Humanities and in Social and Behavioral Studies.

During the junior and senior years students with the help of the pre-medical advisor, should plan to develop major and minor areas of interest in addition to completing the general education requirements for a degree.

It is recommended that students planning a medical career complete the entire four-year curriculum and receive the Bachelor of Science degree before entering a medical college. Students so desiring may complete the first three years of the pre-medical Curriculum substituting a year of satisfactory work in medical college for the fourth year and receive the Bachelor of Science degree.

PRE-PHARMACY

THOMPSON COMPLEX, NORTH WING, ROOM 321
Advisor: David R. Hartman

Students planning a career in pharmacy may follow a pre-pharmacy curriculum at Western for two years, then transfer to a school of pharmacy for the remaining three years of training.

The following curriculum contains the courses required for admission to the University of Kentucky School of Pharmacy. The courses required by other schools of pharmacy are much the same; however, the student should investigate the requirements of the school to which that student plans to transfer in order that every requirement may be included in the pre-pharmacy program.

The Carpenter-Dent Trust Fund offers scholarships to eligible pre-pharmacy students who are residents of Allen, Simpson or Warren County. For further information, contact Dr. Hartman.

Freshman year: Biology 148, 149, 318, 319; Chemistry 120, 121, 222, 223; Math (100, 105, or 118) and 126); English 101, 102; electives.

Sophomore year: Biology 307, 308; Chemistry 340, 341, 342, 343; Physics 231, 207, 332, 208; Economics 202, 203 (may substitute geography, sociology, or government for 203); plus electives (should include two courses in humanities, two in history or two in behavioral sciences) to make a total of sixty-six semester hours credit.

PRE-VETERINARY MEDICINE

ENVIRONMENTAL SCIENCES & TECHNOLOGY BUILDING, ROOM 269
Advisor: L. D. Brown

Kentucky students have the opportunity to enter veterinary medical training at Auburn University and Ohio State University. The Commonwealth of Kentucky has made this possible through its participation in the Southern Regional Education Program and by direct appropriations.

The state pays $5,500 per student per year through the Southern Regional Education Board for each Kentucky student attending Auburn. Each year Auburn University reserves twenty-six places for entering students from Kentucky who meet admission requirements of the school. If admitted, Kentucky students have the same status as Alabama students and do not pay out-of-state tuition.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn University, is the satisfactory completion of 80 semester hours of college work with a grade point average of at least 2.25.

Ohio State University has agreed to accept a limited number of students on a similar basis as outlined above. Students may apply to either or both institutions as they near completion of the pre-veterinary requirements.

The following program is designed for completion in three years although it is possible to complete requirements in less time by attending summer sessions. By choosing the correct electives in the pre-veterinary program, students may transfer credits from Veterinary School for the fourth year at Western and receive the Bachelor of Science Degree. Below is a suggested program:

Required courses:

English 101, 102, 183; Chemistry 120, 121, 222, 223, 340, 341, 342*, 343*, 446**; Math 118**, 126*; Foreign Language—6 hrs. or Health & Safety 290—2 hrs; Biology 148, 149, 258, 259, 207, 208, 321**; Agriculture 140, 345, 446, 448; History 119, 120 or 140-141; Physics 231, 207, 232, 208; Government 110; Physical Education 101, 102; Electives—9 hrs. Social Science or Humanities.

*Auburn only.
**Ohio State only.

BIOCHEMISTRY

Professor: R. Farina, F. Toman
Associate Professors: J. Craig, D. Hartman, M. Houston
Assistant Professor: L. Byrd

Biochemistry is a study of the most intricate of all chemical systems, living matter. It attempts to determine the chemical nature and chemical reactions of protoplasm, the basic material of living matter.

Training in biochemistry offers many opportunities in teaching, research and public service. It also provides excellent preparation for many other areas of basic and applied sciences.

Biochemistry courses are administered jointly through the Departments of Biology and Chemistry. Students should enroll for these courses in either the Department of Biology or the Department of Chemistry depending upon their major emphasis. Enrollment is possible only when proper prerequisites in biology and chemistry are completed.

Biochemistry 446 is strongly recommended for pre-medical and pre-dental students and for biology majors desiring a second major in chemistry.

For further information, contact Dr. Toman in the Department of Biology or Dr. Hartman in the Department of Chemistry.

COURSES OF INSTRUCTION

304 Biochemistry for the Health Sciences. 3 hours.
Prerequisite: Chemistry 109 or consent of the instructor.
A brief treatment of organic chemistry is used as an introduction to carbohydrates, lipids, proteins and nucleic acids emphasizing their functional roles in the biological system. Specific topics will include bioenergetics, enzymes, acid-base balance, hematology and immunology. The course is offered specifically for students in the four-year nursing program, but is also recommended for students in Physical Education, Recreation, Health and Safety and other disciplines dealing with human health. This course does not count toward a major or minor in biology or chemistry. Three lecture hours per week. (Spring)

400 Plant Physiology. 3 hours.
See Department of Biology.

411 Cell Biology. 3 hours.
See Department of Biology.

412 Cell Biology Laboratory. 1 hour.
See Department of Biology.

446 Biochemistry. 3 hours.
Prerequisites: Chemistry 314 or 340.
A study of biochemical compounds and their role in intermediary metabolism. Special topics include biochemical energetics and coenzyme mechanisms. Three lecture hours per week. (Fall and Spring)

447 Biochemistry Laboratory. 2 hours.
Corequisite or Prerequisite: Biochemistry 446.
A basic laboratory study involving selected experiments which illustrate biochemical principles including separation, identification and chemical properties of carbohydrates, lipids, proteins and enzymes. Five laboratory hours per week. (Spring)

462 Bioinorganic Chemistry. 3 hours.
Prerequisite: Chemistry 314 or equivalent.
This course is a study of the coordinating properties and reactivity of metal ions in living organisms. Metal ion toxicity and detoxification, clinical uses of metal chelates in biological systems and functions of various metalloenzymes will be discussed. Lecture and recitation meets three hours per week. (Fall)

467 Biochemistry II. 3 hours.
Prerequisite: Biochemistry 446.
A study of the reactions of living systems and an introduction to the mechanisms and energetics of metabolism. Three lecture hours per week. (Spring)

562 Intermediary Metabolism. 3 hours.

563 Enzymology. 3 hours.

564 Enzymology Laboratory. 1 hour.

580 Plant Biochemistry. 3 hours.

BIOPHYSICS

Advisors: Thomas Coohill and Eugene Hoffman
Departments of Biology/Physics and Astronomy, Thompson Complex North Wing 117 and 211

Faculty: W. Buckman, E. Dorman, D. Bryant and J. Parks, Department of Physics. D. Bailey and F. Toman, Department of Biology

Biophysics deals with the physics of life processes and treats various applications of physics to biology and medicine. It combines a working knowledge of physical theory with an appreciation of the complexities of biological processes. Although only recently established as a separate discipline, it has rapidly taken a position alongside those fields that are advancing the frontiers of scientific knowledge.

The minor in biophysics serves students of the life sciences: biology, pre-medical, pre-dental, agriculture, environmental health, psychology, environmental engineering, pre-veterinary, pre-pharmacy, pre-optometry and medical technology.

Goals of the Biophysics Minor

The purpose of the biophysics minor is to prepare students to meet the career goals listed below. It is expected that a student completing this minor will be proficient in the use of biological instruments and will understand the underlying physical theory. In addition, the student will be exposed to two fundamental ways of looking at biology: first, from the point of view of the biologist who understands the complexity of life processes and second, from the point of view of the physicist who appreciates the basic simplicity of all the laws of nature.

Career Opportunities

The applicability of biophysics is so widespread that we can only outline some of the career opportunities.

Medical doctors, dentists, pharmacists, optometrists, veterinarians, physical therapists and nurses require an understanding of the principles and techniques involved in the use of modern instruments. Radiation treatment, thermography, genetic engineering, laminar flow rooms, cryosurgery and artificial organs have all been made possible due to rapid advances in biophysics.

Biophysics provides a helpful background for students interested in professional training in health related fields. It is also a valuable area for students interested in teaching biology or health at any level.

Industrial, government or university laboratory work requires a thorough knowledge of both the theory and application of modern instrumentation. The federal government is currently funding training programs that combine biology and physics. Job opportunities are available for students with such a background and these openings are expected to increase over the next few decades.

Requirements

Students will be admitted into the program by a biophysics advisor. Individual counseling will guide the student to a proper choice of courses consistent with previous experience. Introductory Biophysics (231, 232) requires no mathematical training beyond high school algebra and geometry. The more advanced courses will require knowledge of 231 and 232. Additional mathematical training is encouraged but is not required.

The Biophysics Minor consists of a minimum of 18 credit hours. Required courses are Physics 231/207—Introduction to Physics and Biophysics I/with lab, 4 hours; Physics 232/208—Introduction to Physics and Biophysics II/with lab, 4 hours; Biology or Physics 335—General Biophysics. Optional courses (minimum of 6 hours required) include but are not limited to: Physics 315/305—Applied Modern Physics/with lab, 4 hours; Biology or Physics 399—Research Problems, 1-3 hours; Biology or Physics 431—Radiation Biophysics, 4 hours; Biology 330—Animal Physiology, 3 hours; Biology 331—Animal Physiology Laboratory, 1 hour; Biology 411—Cell Biology, 3 hours; Biology 432—Advanced Animal Physiology, 3 hours. Each student will meet a biophysics advisor to determine which of the additional courses should be taken to complete a minor. Descriptions of biology and physics courses are found elsewhere in this Bulletin.

Other Departments

Dr. James L. Davis
Wetherby Administration Building, Room 239

DEPARTMENT OF GOVERNMENT

GRISE HALL, ROOM 300

Professor George Masannat, Head

Professors: G. Bluhm, F. Carroll, C. Chelf, R. Cravens, E. Kearny, T. Madron, V. Martin, F. Neuber, J. Parker, J. Petersen, H. Thomason, J. Uveges
Associate Professor: J. Sloan
Assistant Professors: F. Carter, J. Seitz, D. Wanamaker

Through its courses, the Department of Government attempts to further the student's awareness and understanding of political concepts and processes, to assist the student in developing critical and analytical abilities and to create a knowledgeable citizen. Completion of a curriculum in government provides an individual with a broad background preparatory for a number of careers. Among these are government service, politics, teaching, research in political science and entry into law and other graduate schools.

Students may major or minor in government and both are certifiable for teacher education. An area of concentration in Administrative Service is also offered with an option in Public Administration and Policy.

MAJOR IN GOVERNMENT

The major in government (reference number 686) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree. The courses must be distributed as follows: at least one course in each of the following three areas: comparative government, international relations and political theory. At least one-half of the courses completed and offered for the major must be in courses numbered at the 300 level or above. All Government majors are required to complete Government 201.

History and Government majors must complete requirements as stated in the catalog listings of the Department of History.

MINOR IN GOVERNMENT

The minor in government (reference number 383) requires a minimum of 21 semester hours. At least one-half of the required 21 semester hours must be earned in courses numbered 300 or above. Courses must be completed in two of the following three areas: comparative government, international relations and political theory.

GRADUATE DEGREE PROGRAMS

The Department of Government offers a Master of Arts Degree, Master of Public Service — Administration Option and a Government major under the Master of Arts in Education. Assistantships are available to outstanding graduate students. For further information see the Graduate College Bulletin or contact the Dean of the Graduate College.

AREA OF CONCENTRATION IN ADMINISTRATIVE SERVICE

In addition to the major in government, the department offers an area of concentration in Administrative Service with an option in Public Administration and Public Policy. This interdisciplinary program is designed specifically for students interested in administrative careers.

The area of concentration in administrative service (reference number 505) requires a minimum of 69/80 semester hours, dependent upon the emphasis option which is elected, and leads to a Bachelor of Science degree.

All students must complete a core of 48 hours, as follows: ACCT 200; BS ADM 310; ECON 202, 203; ECON 206 or SOCLGY 350; GEOG 240, 350; GOVT 110, 210, 424, 440, 441, 442; ISDE 142; SOCLGY 110 and 310 or 346.

In addition to the core, a student must complete an emphasis option consisting of 21-32 hours, selected from the following:

Economics .....21 hours
ECON 300, 302, 303, 310, 470, 475 and an Economics elective.

City and Regional Planning .....25-32 hours
GEOG 215, 240, 415, 423, 480, 484, 495; GEOL 425; ENG TH 495.

Military Science .....23 hours
MIL SC 100, 101, 201, 299, 300, 301, 400, 401.

Public Administration and Policy .....21 hours
GOVT 201, 211, 310 or 316, 370, 417, 445 and 3 hours of electives.

Sociology, General Option .....21 hours
SOCLGY 255, 355, 310 or 346 (whichever not elected under the core requirement above), 410, 455 and six hours of departmental electives.

Sociology, Criminology and Corrections Option .....24 hours
SOCLGY 250, 333, 430, 433, 435, 445 or 320 or 410; SC WRK 105, 215.

Sociology, Human Services Option .....21 hours
SC WRK 105, 215, 315, 326, 336, 340, 356.

COURSES OF INSTRUCTION

GENERAL COURSES

100 Introduction to Political Science. 3 hours.
A comparative study of democratic and non-democratic political structures, institutions, behavior and processes. Can be used for general education in social science or as a beginning course for majors or minors. (Each Semester)

201 Scope and Methods of Political Science. 3 hours.
An introduction to the study of politics as an academic discipline. This covers a survey of the subject matter of political science and a grounding in the application of the scientific method, elementary statistical concepts and the use of computers as research tools. (Each Semester)

400 Senior Seminar. 3 hours.
Prerequisite: Junior and senior government majors and minors.
This course provides advanced students with an opportunity to analyze important substantive problems not presently covered by departmental offerings. It deals with discipline-wide problems and enables advanced students to integrate several strands of their undergraduate education. (Fall)

401 Methods of Political Inquiry. 3 hours.
Prerequisite: Government 201, introductory statistics or other comparable course.
A systematic analysis and description of the logic and procedures necessary for valid political inquiry. (Fall)

403 Field Studies in Politics. 3 hours.
This course is designed to involve students in practical problems of political research. Students are directed through the design and execution of a major field study. (On Demand)

AMERICAN GOVERNMENT AND POLITICS

110 American National Government. 3 hours.
The essentials of the political system and processes, particularly at the national level, in the United States. Approved for general education credit. (Each Semester)

210 State Government. 3 hours.
Prerequisite: Government 110.
The character, organization, functions and processes of state governments in the federal system of the U.S. (Each Semester)

211 The National Policy Process. 3 hours.
Prerequisite: Government 110.
The policy making and administrative functions of the national government and the elements playing a role in this process. (Fall)

212 Kentucky Government. 3 hours.
Prerequisite: Government 110.
The character, organization, functions and processes of the state and local governments of Kentucky. (Spring Semester Kentucky Legislature meets)

310 The American Presidency. 3 hours.
Prerequisite: Government 110 or 100 or consent of the instructor.
An examination of the American Presidency as a political institution; and the development of the presidential office, its powers and functions. (Spring)

314 Government and Business. 3 hours.
Prerequisite: Government 110.
A study and analysis of government assistance to and regulation of business with principal emphasis upon actions taken under the taxing, spending and "commerce" powers. (Spring)

315 Local Government. 3 hours.
Prerequisite: Government 210 or 212.
The character, organization, functions and processes of local governments in the U.S. (Alternate Springs)

316 The Legislative Process. 3 hours.
Prerequisite: Government 110 or permission of instructor.
A study of legislatures and their role in the American governmental system. The emphasis is on the U.S. Congress but other legislative bodies are also studied. (Spring)

320a, b American Studies I and II.
Each course 3 hours.
Prerequisites: Junior standing or permission of instructors.
These courses are designed to examine the diverse origins and the decisive elements in the development of American culture. They should also provide a wide appreciation and a greater understanding of the mainstream of American thought. (a, Fall; b, Spring)

410 Seminar in National Government. 3 hours.
Prerequisite: Government 110 or permission of the instructor.
Research, reports and discussion of selected aspects of national government. (On Demand)

411 Seminar in State Government. 3 hours.
Prerequisite: Government 110 or permission of the instructor.
Research, reports and discussion of selected aspects of state government. (On Demand)

417 Urban Political Systems. 3 hours.
Prerequisite: Permission of instructor.
Analyzes contemporary American urban political systems; focuses on socio-economic values in the urban political culture and how they relate to political structures and activities; selected urban problems reviewed. (Spring)

PUBLIC ADMINISTRATION

440 Elements of Public Administration. 3 hours.
Survey of governmental administration in the U.S. Relates theory to practices in personnel and financial management and behavior; public control and responsibility in administration is examined against changing expectations and administrative roles. (Each Semester)

441 Public Personnel Administration. 3 hours.
A systematic survey of public personnel administration in the U.S. Discusses the development of modern personnel systems in the public sector and emphasizes contemporary trends at the state and local level as well as the national level of government. (Each Semester)

442 Governmental Financial Administration. 3 hours.
A study of the budgeting and accounting processes of local government, providing familiarization with the various state and federal grant and revenue-sharing programs. (Each Semester)

445 Public Policy Analysis. 3 hours.
Prerequisite: Government 211 or equivalent recommended.
Focuses on the nature of public problems, the processes of analyzing, implementing and evaluating public policy in such areas as taxing and spending, health care, mass transportation, urban planning, and income maintenance and/or related problems of inter- and intra-governmental coordination and implementation. (Spring)

PUBLIC LAW

220 Judicial Process. 3 hours.
Prerequisite: Government 110.
An introduction to the American legal system and the process of legal reasoning. (Fall)

326 Constitutional Law. 3 hours.
Prerequisite: Government 110.
Study and analysis of leading constitutional decisions dealing with judicial review, governmental powers over domestic and foreign affairs, federalism and the relationships between the functional branches of government. (Spring)

327 Civil Liberties. 3 hours.
Prerequisite: Government 110.
Study and analysis of leading constitutional decisions and other materials concerning individual liberties in the U.S. (Fall)

423 Jurisprudence. 3 hours.
Prerequisite: Junior standing and permission of instructor.
An analysis and exposition of the nature of law; of the origins, evolutions and characteristics of the common and Roman law systems; of principal schools of legal theory and of the arrangement, methods and processes of the law. (Alternate Springs)

424 Administrative Law. 3 hours.
Prerequisite: Junior standing and permission of instructor.
A study of the development of and trends in administrative law with emphasis on the problems caused by the exercise of quasi-legislative and quasi-judicial powers by administrative agencies, including the rights, duties and liabilities of public officials, relief against administrative action, jurisdiction, conclusiveness and judicial control. (Alternate Springs)

POLITICAL DYNAMICS

370 Political Parties. 3 hours.
A description and analysis of the role of political parties in the political system, with emphasis on parties in the U.S. (Each Semester)

371 Public Opinion and Electoral Behavior. 3 hours.
A study of the formation and expression of public opinion, of the attitudes and experiences which influence voting and of the manner in which public policy is related to opinion and elections. (Spring)

POLITICAL THEORY

431 Normative and Empirically-Related Theory. 3 hours.
Prerequisite: One political theory or philosophy course or permission of the instructor.
An analysis of the structure and function of normative (or value) theories or empirically-related (or scientific) theories and the role they play in the study of politics. (On Demand)

432 Early Political Theory. 3 hours.
Prerequisite: Permission of the instructor.
The development of political ideas in the Western tradition from Plato through Thomas Aquinas. (Fall)

433 Modern Political Theory. 3 hours.
Prerequisite: Government 432 or permission of the instructor.
A continuation of Government 432 from Machiavelli to the present-day theorists. (Spring)

434 Contemporary Political Theory. 3 hours.
Prerequisite: Government 432 or permission of the instructor.
Selected aspects of contemporary political thought. (Alternate Springs)

435 American Political Theory. 3 hours.
Prerequisite: Junior standing or permission of the instructor.
A study of American political theory from the American Revolution to the present. (Fall)

INTERNATIONAL RELATIONS

252 International Politics. 3 hours.
An introductory course in international relations which is designed to acquaint the student with basic theories, terminology, motivations, interrelationships and problems on an international scale. Approved for general education credit. (Spring)

351 Latin American International Relations. 3 hours.
Analysis of the role of Latin American nations in the international political arena. Emphasis on Latin American-United States relations, comparative foreign policies, regional institutions and regional integration. (Fall)

353 Soviet Foreign Policy. 3 hours.
This course deals with the important determinants of Soviet foreign policy by analyzing the role of institutions, individuals, ideology and power politics in policy formulation toward major areas of the world. (Fall)

355 International Organization and Law. 3 hours.
Prerequisite: Government 100 or 252 or permission of the instructor.
A study and analysis of the laws of peace and war and of the United Nations System. (Fall)

357 U.S. Foreign Policy. 3 hours.
Analysis of the formulation and organization of U.S. foreign policy. Basic principles and characteristics of the foreign policy system. An introduction to goals, implementation and current challenges to policy. (Spring)

450 International Relations of Middle East. 3 hours.
Studies of relations between states in the area and their individual and collective relations with international organizations and with the Soviet and the Western blocs. (Spring)

COMPARATIVE GOVERNMENT AND POLITICS

200 Introduction to Latin America. 3 hours.
This course is a broad interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures.

360 Governments and Politics in the British Commonwealth. 3 hours.
A comparative analysis of the political cultures, institutions and processes of France, Italy and India. Course includes a comprehensive study of the parliamentary executive system and reference to major topical problems. (Fall)

361 Governments and Politics of West Europe. 3 hours.
Prerequisite: Government 100.
A comparative analysis of the politics, cultures, institutions and processes of France, Italy and West Germany, and references to the European Community. (Spring)

461 Government and Politics of the U.S.S.R. 3 hours.
An analysis of government and politics of the Soviet Union that seeks to explain the rise, sources and nature of communist ideology, institutional character; the theories, structure and functioning of the Communist Party of the Soviet Union. (Fall)

462 Latin American Governments and Politics. 3 hours.
A comparative study of the political systems of Latin American nations. Emphasis on the social and economic environment, political culture, political development, leadership recruitment, political instability and revolutionary change. (Spring)

463 Politics of the Developing Nations. 3 hours.
Prerequisite: Permission of the instructor.
A study of the political culture, processes and problems of nations that have become independent since World War II. (Alternate Falls)

465 Middle Eastern Governments and Politics. 3 hours.
An analysis of the governmental and political processes of the Middle East with emphasis on Iran, Israel, Turkey and the United Arab Republic. (Alternate Springs)

466 Governments and Politics in East Asia. 3 hours.
An analysis of political and governmental institutions of the People's Republic of China, Taiwan and Japan, with special consideration of the modernization and developmental processes and reference to current problems and policies. (Fall Semester of Even Years)

The following courses are offered only in Frankfort for students who are participating in the Kentucky Legislative and Kentucky Administrative Intern Programs:

490 Internship in State Government. 6 hours.
Evaluation by the academic coordinator and agency supervisors of the intern's performance of assigned agency functions. Interns are full-time employees (40 hr/wk) for the duration of their internship program. Job assignments are made with the mutual consultation and consent of the intern, the agency and the academic coordinator.

491 Research in State Government. 3 hours.
Submission of a major research paper by the intern to an academic coordinator. Research is supervised by the academic coordinator in conjunction with the agency supervisor. May deal with assigned agency research function or may be independent of intern's role, but related to the agency need.

492 Kentucky Legislative Processes. 3 hours.
Prerequisite: Acceptance into the Kentucky Legislative Intern Program.
Focuses on contemporary problems and processes of the State legislative process. Discusses and analyzes state legislative affairs through discussion of issues by key state government personnel as well as through textbook materials.

493 Kentucky Constitution and Politics. 3 hours.
Prerequisite: (Same as 492.)
Seminars designed to acquaint interns of the historical and political heritage of the governmental process in Kentucky and how it is seen in the light of the existing Constitutional and legislative process.

494 Problems in State Governments. 3 hours.
Prerequisite: (Same as 492.)
Seminar in selected state administrative problems in Kentucky and other states. Course emphasizes discussion and dialogue between interns and state administrative leaders and offers several opportunities for interns to inspect state administrative problems such as strip mining, prison administration, health services and others through on-site situations.

495 Administration of State Agencies. 3 hours.
Prerequisite: Acceptance into the Kentucky Administrative Intern Program.
Seminar which discusses administrative organizations and processes in general and focuses on contemporary examples at the state level. Course focuses on state agencies in Kentucky and the relationships between actual agency operations and theoretical concerns.

DEPARTMENT OF SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK

GRISE HALL, ROOM 101

Professor H. Kirk Dansereau, Head

Professors: F. Baali, T. Dunn, J. Grimm, K. Kalab, P. Wozniak
Associate Professors: D. Andrews, L. Beck, W. Berry, E. Bohlander, J. Faine, H. Hepler, A. Jackson, J. Krenzin, J. Schock, P. Toups, V. White
Assistant Professors: Z. Ahmad, A. Goetting, J. Henry, V. Moore, C. Taylor, R. Wessing

The Department offers programs for the preparation of research and administrative personnel as sociologists, social welfare specialists and anthropologists; for social workers and for school social workers; for the preparation of those wishing to pursue graduate degrees in sociology, anthropology, urban planning and social work and the training of teachers of these subjects.

MAJOR IN SOCIOLOGY

A major in sociology (reference number 775) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree. At least half of the total semester hours earned must be in upper division courses (courses numbered 300-499). Up to 6 of the total hours earned may be in anthropology and/or social work. The following courses are required for a major: Sociology 110, 350, 360, 385, 390. These should be completed before the end of the junior year.

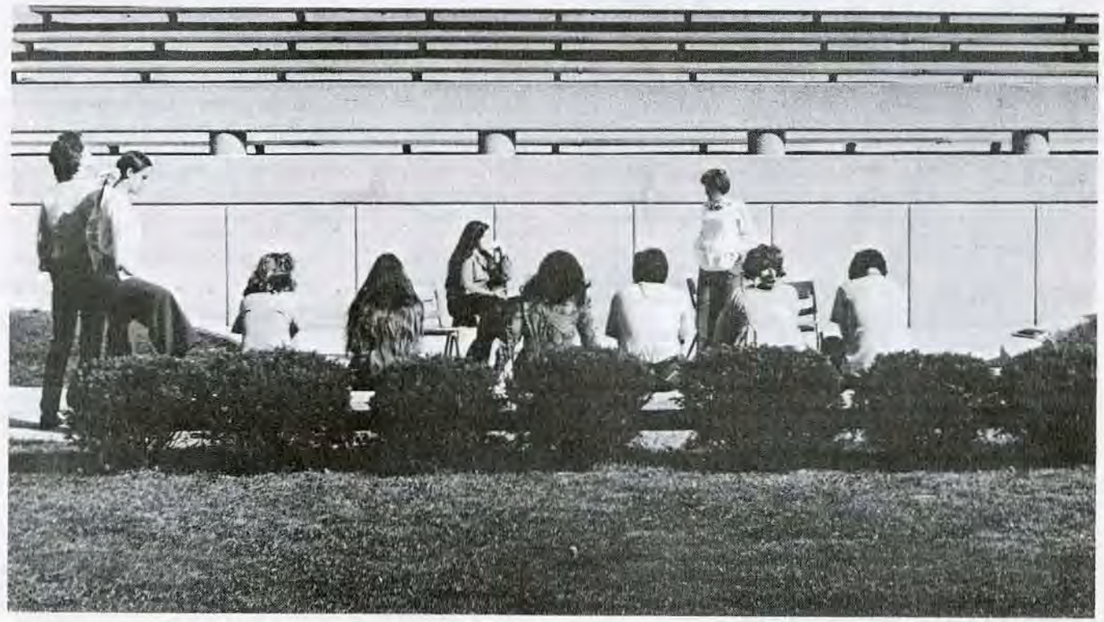
Minor in Sociology
A minor in sociology (reference number 461) requires a minimum of 21 semester hours. Of the 21 hours, 3 hours of credit may be taken in anthropology or social work. At least 12 of the hours earned in the minor must be in upper division courses (courses numbered 300-499).

Criminology and Correction Program
The Department offers an emphasis in Criminology and Corrections. One may major in sociology, meeting the major requirements listed above and taking Sociology 230 or 250, 333, 430, 433, and 435.
Under the Administrative Service Program the Criminology and Corrections Emphasis consists of the above courses plus Sociology 410 or 445 and Social Work 215.
Limited Federal funds from the Law Enforcement Education Program are available to cover cost of tuition and books for qualified students following one of these programs. Interested persons should contact: Dr. Louis Beck, Department of Sociology, Anthropology and Social Work, Western Kentucky University.

Area of Concentration in Administrative Service
Sociology offers a 21-hour area of emphasis option under the Administrative Service Program.

MAJOR IN ANTHROPOLOGY

A major in anthropology (reference number 608) requires a minimum of 30 semester hours and leads to a Bachelor of Arts degree. At least half of the total semester hours earned must be in upper division courses (courses numbered 300-499). Up to 12 of the total hours may be in sociology (6 hours) or cross-listed courses (6 hours). The following courses are required of a major: Anthropology 150, 151, 280 and one of the field courses in Archaeology (491-492).



Minor in Anthropology

A minor in anthropology (reference number 311) requires a minimum of 21 semester hours. Required courses are Anthropology 150 and Anthropology 151. Three hours of sociology and 3 hours of a cross-listed course or 6 hours of cross-listed courses may be counted toward the minor.

SOCIAL WORK PROGRAM

The basic purpose of the Social Work Program at Western Kentucky University is the preparation of the student for social work practice. Secondary goals include preparing students for graduate education in social work, providing other university students an opportunity to obtain knowledge about social work and social welfare in our society, and offering service to the community by faculty as well as students. The Social Work Program is fully accredited by the Council on Social Work Education.

Social Work Area of Concentration

The Social Work Area of Concentration (reference number 594) consists of 60 semester hours, 33-34 hours in social work and 27 hours in supportive courses.It is not necessary to have a minor for graduation as the area of concentration fulfills the requirements for a major and minor. Students interested in selecting social work as their major program of study should make an appointment with the coordinator of the Social Work Program at Grise Hall, Room 333.

The 53-54 hours of general education requirements of the University include specific courses as requirements and a variety of elective courses within required areas.

The social work program of study leading to a B.S. degree in social work builds on a liberal arts base. During the freshman and sophomore years, students will take courses in English, speech, government (political science), economics, math, biology, sociology, cultural anthropology, psychology and history. These courses will also fulfill general education requirements. A social work faculty member will be assigned to each student for advice in the selection of courses.

Requirements are as follows: 33 or 34 semester hours in social work: Social Work 105, 106 (can be waived), 215, 315, 330, 380, 381, 480, 481 and one elective in social work. Twenty-seven additional hours are required to complete the program. The student must take a course in statistics, Sociology 350; and social research, Sociology 390. The remaining 21 hours consist of the following: Sociology 320, Psychology 260 or Sociology 295 and Psychology 440, HEFL 352 or Sociology 420 and other upper level courses selected from sociology, psychology, health, government, social work and other content areas approved by the faculty advisor. Field instruction placements are made in a variety of settings.

Admission to area of concentration: After having declared interest in social work, the freshman is assigned an advisor from the Social Work Program. At that time, a program of study is planned for the student. Upon completion of 45 semester hours, students must submit a written statement/application indicating their continued interest in selecting social work as their major program of study and stating the reasons for their choice. Additionally, they must have an interview with the program's Admissions Committee. Students whose cumulative grade point average is below 2.5 may be admitted depending upon other attributes that the student may possess.

Human Services Minor

The human services minor (reference number 459) consists of 21 semester hours. The student is required to take 15 semester hours of social work courses approved by the social work advisor. The remaining six semester hours will be selected, on the advisor's approval, from a discipline that supports the student's major program of study, but cannot include courses from the major.

Under the Administrative Service Program, the Social Work Program offers a 21 hour Human Services Option.

School Social Work

Students may meet the requirements for certification as a School Social Worker as follows: a valid teaching certificate with student teaching in a certifiable teaching area; Social Work 105, 215, 476; 9 hours of social work electives selected with approval of social work advisor (Social Work 336, 356 recommended); social science minimum of 12 hours (Sociology 110, 320, 430; and Psychology 100).

GRADUATE DEGREE PROGRAMS

Graduate courses are offered from which the student may select a sequence of advanced study leading to the Master of Arts degree in sociology. Graduate teaching and research assistantships are available to qualified students. For further information see the Graduate Bulletin or contact the Department of Sociology and Anthropology, Western Kentucky University.

COURSES OF INSTRUCTION

SOCIOLOGY

110 Introduction to Sociology. 3 hours.
Introduction to the basic concepts of society and culture, group behavior, population, class, minorities, community, social institutions and social change. (Fall, Spring, Summer)

230 Deviant Behavior. 3 hours.
Prerequisite: Sociology 110.
Emergence of social norms. Nature of societal rules, rule enforcers and rule breakers. Social issues and research in crime, delinquency, drug addiction, homosexuality, alcoholism, mental illness, pornography, sexuality and other forms of deviance. Emphasis on theoretical explanations and social consequences.

250 Social Problems. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Survey of deviant behavior, social disorganization and public dissensus in contemporary societies. Emphasis is placed on social change, conflicts in cultural values and the impact of technology. Field trips required in some sections. (Fall, Spring, Summer)

255 Social Organization. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Examination of the basic components of social structure including status and role, social groups, complex organization and bureaucracies and social institutions. (Spring)

260 Social Ecology. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Ecological principles and processes underlying community organization and disorganization are examined, emphasizing spatial patterns of behavior and institutional subsystems and distribution of social phenomena in the urban setting. (Fall, Spring)

295 Society, Personality, and Behavior. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Study of personality and behavior of the individual. Emphasis is on varying group structures, cultural and social processes and their consequences for attitudinal development, role perception, role performance and value orientation. (Fall, Spring, Summer)

302 Simulations, Gaming and Society. 3 hours.
Prerequisite: Six hours of sociology.
Examination of the use of simulations and games in the social sciences. Students play and operate a number of games and attempt to develop new simulations or refine existing ones. (Fall, Spring)

310 Population. 3 hours.
Prerequisite: Sociology 110 or consent of the instructor.
Causes and consequences of the "population explosion" and other "population problems" in the United States and developing countries are examined. Emphasis is placed on the interrelationships of population variables (fertility, mortality and migration) and social, economic, political and ecological variables. (Fall, Spring)

320 Minority Relations. 3 hours.
Prerequisite: Six hours of sociology.
Analysis of minority group structure and function such as racial, ethnic and religious groups, with a focus on social processes resulting as a consequence of contact. (Fall, Spring)

322 American Institutions and Minorities. 3 hours.
Prerequisites: Junior standing or consent of instructor.
The five primary institutions (family, religion, economy, education, government) as they affect and are affected by minority Americans. Explores interrelationships among those institutions and similarities and differences between minority institutions and institutions of the dominant group.

333 Criminology. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Study of the personal, structural and ideological bases of law violating behavior in American society. (Fall, Spring)

335 Social Stratification. 3 hours.
Prerequisite: Six hours of sociology.
Analysis of how societies differentially distribute social rewards. Includes inequality, mobility and life styles in caste, class, and other systems.

346 The Sociology of Work. 3 hours.
Prerequisite: Six hours of sociology.
Introduction to the sociological study of work, workers and work relationships in a variety of work systems. (Fall)

350 Social Statistics. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Techniques of statistical description and elementary statistical inference as applied to social data. (Fall, Spring, Summer)

352 Sociology of Health and Medicine. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
A comprehensive introduction to sociological factors in disease etiology and illness behavior; the organization and operation of health delivery systems; and the social interaction between organization administrators, health professionals and semi-professionals, patients, and the public.

355 The Community. 3 hours.
Prerequisite: Six hours of sociology.
Study of the structure and function of community life and the process of balancing community needs and resources. (Fall, Spring, Summer)

360 History of Social Thought. 3 hours.
Prerequisite: Six hours of sociology.
Analysis of some contributions to social theory prior to Emile Durkheim. Emphasis is on the growth of social thought leading up to the time of Durkheim. (Fall, Spring, Summer)

370 Social Institutions. 3 hours.
Prerequisite: Six hours of sociology.
Introduction to studies of the basic social institutions of family, education, religion and government. (Fall, Spring)

372 The Changing Family. 3 hours.
Prerequisite: Nine hours of sociology or consent of instructor.
Analysis of the family institution, its structure and function and the dynamics of social change in family interaction and organization. (Fall, Spring)

375 Collective Behavior and Social Movements. 3 hours.
Prerequisite: Six hours of sociology.
Analysis of collective behavior and social movements in terms of their institutional and social consequences. (Fall, Spring)

380 Sociology of Aging. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
An analysis of the elderly and their position in society. Attention is directed to aging as it relates to various social institutions and to the social aspects of aging in contemporary American society.

385 Contemporary Sociological Theory. 3 hours.
Prerequisite: Six hours of sociology.
Study of the leading developments of "schools" of sociological theory from Durkheim to the present. (Fall, Spring, Summer)

390 Methods of Social Research. 3 hours.
Prerequisite: Six hours of sociology.
Survey design and analysis, scaling techniques, methods of analyzing data with emphasis on hypothesis-testing, statistical inference and tests of relationship. (Fall, Spring, Summer)

410 Urban Sociology. 3 hours.
Prerequisite: Nine hours of sociology or consent of instructor.
The impact of city life on social actions, social relationships and social institutions. Emphasis is placed on the rise and significance of cities in American life, with attention to modification of educational, political and religious institutions as well as housing, transportation and communication. (Fall)

415 Sociology of Religion. 3 hours.
Prerequisite: Nine hours of sociology or consent of instructor.
Study of the various forms and content of religious organizations and movements and the behavioral and attitudinal concomitants of religious affiliation. (Spring)

430 Juvenile Delinquency. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
An examination of the socio-legal aspects of delinquency, including a critical analysis of trends and contemporary treatment modes. Field trips required. (Fall, Spring)

433 Corrections and Confinement. 3 hours.
Prerequisite: Sociology 333 or 430 or consent of instructor.
An examination of the development, organization and function of total institutions, socio/legal considerations emphasized. Field trips required. (Fall)

435 Probation and Parole. 3 hours.
Prerequisites: Sociology 110 and 333, or consent of instructor.
A survey of the cultural development of philosophies of punishment and a socio/legal examination of offender treatment in the community. (Spring)

436 Introduction to Juvenile Justice. 3 hours.
Prerequisite: Sociology 110 and 430, or consent of instructor.
An analysis of the juvenile justice system, the decision making network, and contemporary issues and trends in juvenile justice administration.

437 Sociology of Criminal Law. 3 hours.
Prerequisite: Sociology 333 or consent of instructor.
An examination of the sociological research and theory focusing on social structural factors affecting the creation of criminal codes, the enforcement of criminal law and the imposition of penal sanctions.

445 Industrial Sociology. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Analysis of technology's impact on work systems, relationships between work and society and management-worker interaction in varied industrial settings. (Spring, Alternate Summers)

450 Occupations and Profession. 3 hours.
Prerequisite: Sociology 110 or consent of instructor.
Analysis of the meaning of trends in occupational activities and careers through investigation of various occupations and professions. (Spring, Alternate Summers)

465 Mass Society and Mass Communication. 3 hours.
Prerequisite: Sociology 110 or 295 or consent of instructor.
In-depth study of the interdependent relationships between a society and its media systems. (Spring)

470 Sociology of Education. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor.
An examination of the social conditions that affect education and the social conditions produced by education. Also, considers interrelations between education and other institutions.

495-496 Directed Study. 3 hours.
Prerequisite: Junior standing and consent of Department Head.
Available to superior students who wish to conduct individual, intensive reading and research in a specific area of sociology, in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged. (Fall, Spring, Summer)

ANTHROPOLOGY

150 Introduction to Anthropology: Man and Culture. 3 hours.
Comparative study of human behavior which examines the many different ways of life in a variety of cultures throughout the world. (Fall, Spring, Summer)

151 Introduction to Anthropology: Human Origins. 3 hours.
Survey of the physical origin of man; his primate background, his physical and cultural evolution, and the biological bases of his behavior. Specific topics include fossil varieties of man, social behavior among non-human primates and the anthropology of the individual. (Fall, Spring, Summer)

210 Human Ecology. 3 hours.
See Department of Geography and Geology.

255 Peoples and Cultures of Latin America. 3 hours.
Prerequisite: Anthropology 150 or consent of instructor.
Study of the history and development of present cultures in Latin America. Both urban and peasant groups are examined in terms of their religion, political systems, economies and value systems. (Spring)

265 Peoples and Cultures of Asia. 3 hours.
Prerequisite: Anthropology 150 or consent of instructor.
Introduction to the principal cultural spheres of Asia, including East, South and Southeast Asia, the Near East and the Soviet Union east of the Urals. (Fall)

276 Introduction to Folk Studies. 3 hours.
See Intercultural Studies.

280 Fundamentals of Archaeology. 3 hours.
Prerequisite: Anthropology 151 or consent of instructor.
Introduction to archaeological methods, including field and laboratory procedures; scientific equipment and techniques useful in detection, dating and analysis of prehistoric materials. (Fall)

300 Genetics and Human Affairs. 3 hours.
See Department of Biology.

315 Old World Pre-History. 3 hours.
Prerequisite: Anthropology 151.
Detailed archaeological examination of prehistoric cultures of the Old World. (Fall)

330 North American Archaeology. 3 hours.
Prerequisite: Anthropology 151 or 280.
Survey sketching development of prehistoric Indian cultures in North America. Representative sites and cultures are examined in detail. (Spring, Odd Years)

345 Indians of North America. 3 hours.
Prerequisite: Anthropology 150, 151, or consent of instructor.
Survey of the cultures of the original peoples of North America, with emphasis on the ethnographic present. (Fall)

365 History of Anthropology. 3 hours.
Prerequisite: Anthropology 150 or consent of instructor.
The history of the development of theory in anthropology from 19th Century evolutionary schema through Historical Particularism, the Boasian milieu, Structural Functionalism, the New Ethnography, Statistical Survey, Cultural Ecology, Cybernetics, and Holocultural theory.

376 The Folktale. 3 hours.
See Intercultural Studies.

420 Fossil Man. 3 hours.
Prerequisite: Anthropology 151.
A detailed examination of the fossil evidence for the origins of man. (Fall)

430 Music of the World's Peoples. 3 hours.
See Department of Music.

440 Cultural Anthropology. 3 hours.
Prerequisite: Anthropology 150 or consent of instructor.
Selected topics in ethnological theory and methods of analysis, comparative and functional analysis in culture configuration and the historical development of theory in anthropology. (Spring)

460 Primitive Religion. 3 hours.
See Department of Philosophy and Religion.

462 Folk Medicine. 3 hours.
See Intercultural Studies.

463 Cross-Cultural Communication. 3 hours.
See Department of Communication and Theatre.

470 Archaeology of Kentucky. 3 hours.
Prerequisite: Anthropology 151.
A detailed examination of the various prehistoric cultures which inhabited Kentucky. Particular emphasis is given to diagnostic artifacts and representative sites. (Spring, Even Years)

477 Folk Art and Technology. 3 hours.
See Intercultural Studies.

485 Language in Culture. 3 hours.
Prerequisite: Anthropology 150 or English 104 or consent of instructor.
The study of how human language relates to other aspects of socio-cultural behavior. Linguistics is approached as a subfield of anthropology.

491-492 Field Course in Archaeology. 1 to 4 hours each.
Prerequisite: Anthropology 151, 280 or consent of instructor.
Includes archaeological survey, site excavation mapping and recording techniques and cataloging procedures. Excavation is usually conducted on prehistoric Indian sites. (Fall, Spring)

495-496 Directed Study. 3 hours per semester.
Prerequisite: Junior standing and consent of department head.
Available to superior students who wish to conduct individual, intensive reading and research in a specific area of anthropology, in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged. (Fall, Spring, Summer)

SOCIAL WORK

105 Introduction to Social Work. 3 hours.
An introduction to the profession, values and knowledge bases, methodology, work settings and client populations of social work.

106 Community Services Laboratory. 1 hour.
This experience provides the student an opportunity to become involved and understand community needs and agency functions. (May be waived under certain circumstances)

215 Introduction to Social Welfare. 3 hours.
Study of the leading philosophers and historical development of social welfare utilizing a systems approach.

315 Social Policy and Issues. 3 hours.
Prerequisite: S.W. 215
An examination of the issues of social welfare and the models available for determining policy and implementing programs of social welfare.

325 Social Work and Women in Society. 3 hours.
Prerequisite: Junior standing or permission of instructor.
This course will provide the student with a foundation for studying some of the major issues concerning women today (such issues as sexism, the socialization process and the feminist movement). The status of women as it relates to the social, economic and political systems will be examined in light of past, present and future trends.

326 Services for the Older American. 3 hours.
Prerequisite: Junior standing or permission of instructor.
This course focuses on individual and societal aspects of aging with emphasis on programs, resources and services to meet the social tasks of later life.

***330 Human Behavior in the Social Environment.** 3 hours.
Prerequisite: Junior standing and admission into the Social Work Area of Concentration
Corequisite: S.W. 380.
Knowledge from the behavioral sciences and its application to social work practice are examined along with possible explanations of human behavior from the bio-socio-cultural perspective.

336 Services to Children. 3 hours.
Prerequisite: Junior standing or permission of instructor.
A survey of institutional and community services with focus on principles of social services for children and their parents.

340 Dynamics of Group Interaction. 3 hours.
Prerequisite: Junior standing or permission of instructor.
The dynamics of interpersonal interaction in small groups are examined in a predominantly experiential manner in the classroom.

356 Services for Juvenile Offenders and Their Families. 3 hours.
Prerequisite: Junior standing or permission of instructor.
The nature and extent of deliquency, structure, and function of the juvenile court will be stressed. Emphasis will be on the provision of services to the juvenile offenders and their families.

***380 Integrative Methods I.** 3 hours.
Corequisite: S.W. 330.
This course is the initial course in the practice sequence and is designed to develop the basic values, concepts and skills generic to social work practice with individuals, groups, families, communities and organizations. The emphasis is on practice in rural communities and small towns. The primary focus in this course is on assessment.

***381 Integrative Methods II.** 3 hours.
Prerequisite: S.W. 380.
This course focuses on the intervention, evaluation, and termination phases of the planned change process, with special attention to developing and differentially applying generic skills and processes with individuals, families, groups and communities. Emphasis will be on designing, adapting and broadening the range of intervention alternatives in working within and between service delivery systems in Kentucky.

476 Human Service Practicum. Laboratory, 10 hours per week. 3 hours.
Prerequisite: Permission of instructor.
Students are placed in community service agencies under the joint supervision of the agency and the University. (This placement is usually limited to students in the School Social Work Sequence.)

***480 Social Work Practicum.** 9 hours.
Prerequisite: Admission to Field and S.W. 381.
Corequisite: S.W. 481.
Laboratory, four days per week for a semester.
Students are placed in a variety of community service agencies under the joint supervision of the agency and the University.

***481 Social Work Practice Seminar.** 3 hours.
Corequisite: S.W. 481.
The focus is on integrating classroom knowledge content as it relates to application in field education.

495-496 Directed Study. 3 hours.
Prerequisite: Junior standing and consent of coordinator.
Available to superior students who wish to conduct individual, intensive reading and research in a specific area of social work, in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged. (Fall, Spring, Summer)

*These courses are available only to those students accepted into the Social Work Area of Concentration.

GRADUATE COURSES

Sociology

505 Elements of Sociology. 3 hours.

520 Studies in Family Relations. 3 hours.

530 Seminar in the Sociology of Deviant Behavior. 3 hours.

535 Seminar in Criminology. 3 hours.

545 Seminar in Society, Personality and Behavior. 3 hours.

564 Demography: Population Trends and Analysis. 3 hours.

565 Studies in the Community. 3 hours.

566 Industry and Community. 3 hours.

572 Social Change. 3 hours.

575 Complex Organization. 3 hours.

580 Advanced General Sociology. 3 hours.

590 Sociological Research Design and Analysis. 3 hours.

595 Seminar in Sociological Theory. 3 hours.

599 Thesis Writing. 1 to 6 hours.

635 Seminar in Family Theory and Analysis. 3 hours.

640 Seminar in the Sociology of Work. 3 hours.

Anthropology

507 Elements of Anthropology. 3 hours.

555 Seminar in Anthropological Theory. 3 hours.

570 Appalachian Folklore and Folk Life. 3 hours.

572 Applied Folklore. 3 hours.

573 Seminar in the Interpretation of Myth. 3 hours.

577 Techniques and Materials in Folklore Studies. 3 hours.

578 Folklore and Folk Life Research. 3 hours.

579 Directed Study and Research in Folklore. 3 hours.

PRE-LAW

GRISE HALL, ROOM 330
Advisor: Brian Sullivan

Pre-law preparation is not a curriculum as in the case of pre-medicine or other programs which follow a specific pattern of undergraduate courses.

There is no one field of study which is prerequisite for admission to law schools. Students whose career aim is the practice of law should select a major or area of concentration and such minor fields and elective courses as they find of interest and in which they can do well academically.

Admission to law school is on a competitive basis and the number of openings at each school is limited. The main criteria for admission to most recognized schools are a high grade point average (GPA) in undergraduate work and a high score on the Law School Admission Test (LSAT).

Most studies of the factors which contribute to success in the study of law conclude that vocabulary, oral and written communication, and an understanding of human institutions and values are of utmost importance. Subjects which, among others, instill these assets are business administration, economics, English, government, history, philosophy, psychology and sociology. In addition, many studies have suggested that an exposure to at least six hours of accounting is of value.

The Pre-Law Advisor: Each student who declares an intent to study law after graduation will be assigned an advisor in the chosen area or discipline. He will also be assigned to pre-law advisement for assistance in obtaining information about law schools, the Law School Admission Test and other pertinent information. The pre-law advisor and staff assistants will also be available to assist the students in the preparation and submission of applications to law schools of their choice. (Every application must be accompanied by letters of recommendation from faculty members who can comment on the student's ability and promise for the study of law. Aspiring candidates should so conduct their undergraduate studies that they can with confidence ask at least three faculty members to serve as references.)

Community College and Continuing Education

VAN METER HALL, 103
Dr. Carl P. Chelf, Dean

The Bowling Green Community College and Continuing Education office is the administrative unit of the University which coordinates the associate degree and certificate programs; continuing education programs, including conferences, workshops and institutes and the Continuing Education Center; extended campus courses; evening classes; correspondence study, the summer session and the cooperative education programs. The Dean of the Community College and Continuing Education reports to the Vice President for Academic Affairs.

COMMUNITY COLLEGE

The Bowling Green Community College is the administrative unit through which the associate degree and certificate programs of the University are coordinated. Less than baccalaureate level programs are offered through a number of departments and colleges within the University providing a variety of educational opportunities.

It is the purpose of the Bowling Green Community College to further the educational objectives of Western Kentucky University by providing quality educational programs at the less-than-baccalaureate degree level. Specialized programs in technical and skilled fields are available in a number of areas. Programs offered through the Bowling Green Community College are designed to provide educational opportunities for those who do not need or do not desire to pursue a baccalaureate degree. Normally the work for an associate degree can be completed in a period of two years (four semesters), and a certificate program in one year (two semesters).

Courses fulfilling the requirements of these programs are offered through the day and early evening, and while most of the students are regularly-enrolled, full-time students, the evening offerings enable those attending only part-time an excellent means of pursuing these programs. An associate degree or certificate program is an excellent way to reduce both the time and cost of a college education and still acquire the training for a good job.

Students enrolling in these Community College programs have the same privileges as other undergraduate students. They are eligible for financial aid in the form of loans, work-study grants and some scholarships. Also students receiving associate degrees or certificates may, if they desire, apply most or all of their work toward a baccalaureate degree.

A complete list of the associate degree and certificate programs offered through the Bowling Green Community College can be found in an earlier chapter of this catalog or in the Bowling Green Community College bulletin. Those interested in more detailed information on the Bowling Green Community College and its programs should refer to the Bowling Green Community College bulletin or write directly to the appropriate department or to the Dean, Bowling Green Community College.

EXTENDED CAMPUS PROGRAMS

The University serves its region by providing approximately 200 courses a semester in over thirty off-campus locations. A variety of courses are offered in Owensboro, Fort Knox, and Louisville-Jefferson County, with more limited offerings in other locations. These are regular University courses and most are taught by full-time faculty. For further information contact the Office of the Assistant Dean for Extended Campus Programs, 116 Van Meter Hall, Western Kentucky University.

CONTINUING EDUCATION

A number of continuing education programs are coordinated through this administrative unit of the University. These include both degree credit and non-credit courses, seminars, workshops, conferences, institutes and other educational activities.

CEU Courses

The Office of Special Programs is responsible for the administration of continuing education unit (CEU) courses.

While CEU credit is not applicable to University degree programs, such courses provide a variety of educational opportunities and are appropriate for a wide range of continuing education programs—personal, vocational and professional enrichment.

Continuing Education Unit courses may be offered by any academic or administrative unit of the University. Transcripts documenting one's participation in such programs are available from the Registrar and may be considered an integral part of the student's total vocational and/or professional credentials.

Schneider Continuing Education Center

The Florence Schneider Continuing Education Center provides lodging facilities for individuals and groups participating in short-term continuing education activities on campus. Other facilities such as the Paul L. Garrett Conference Center, the Dero Downing University Center and various classroom buildings provide ample meeting rooms to accommodate groups of all sizes.

The University has approved the Continuing Education Unit (CEU) as a measure of participation in non-degree credit educational activities and participation in such programs is recorded on a transcript which provides a record of an individual's continuing education activities.

Those interested in continuing education activities should contact the Director of Continuing Education Programs or the Dean of Continuing Education, Western Kentucky University, Bowling Green, Kentucky 42101.

SPECIAL PROGRAMS

The Office of Special Programs is responsible for the coordination and administration of the evening class program, summer session, associate of liberal studies degree, and independent study through correspondence courses.

Evening Classes

More than 300 college credit courses are offered each regular semester in the late afternoon and evenings by more than 35 different departments. These courses are offered at this time primarily to accommodate the students who are working full-time during the day and desire to continue their education on a part-time basis. Of the above number of courses, approximately 165 are offered at the undergraduate level and 150 (plus) at the graduate level. A special schedule of evening classes is available from the Office of Special Programs, Van Meter Hall.

Summer Session

The Summer Session is designed with particular regard for what can be taught satisfactorily in two terms of five and one-half weeks each and in a summer environment. Courses are scheduled by most departments of the University at the undergraduate and graduate levels.

Every effort is made to maintain the same high standards of instruction and academic performance as those of the regular academic semester.

Most University facilities are available to students during this session. The summer commencement exercise is the concluding event of the summer session whereby candidates are awarded associate, baccalaureate, master's and education specialist degrees.

Schedule bulletins listing summer session courses are usually available near March 1 and may be secured from the Office of the Registrar.

Associate of Liberal Studies Degree

The Office of Special Programs has the responsibility for advisement of students pursuing the Associate of Liberal Studies degree.

This 64-hour Liberal Studies program is designed for those who need or desire a more flexible degree program than is provided through the usual curricular offerings. This degree enables students to design an associate degree program to suit their personal needs and educational objectives within the general limits specified for this program.

This program is becoming more attractive and important in light of the general trend for business and industry to increase the minimum educational level required for employment and/or promotion.

For more detailed information regarding the A.L.S. degree, contact the Office of Special Programs, 212 Van Meter Hall.

Independent Study

Independent study through correspondence courses offers a viable option for students with unique academic needs. These courses are for high school credit and for college credit (at the undergraduate level only).

More than 50 regular college courses are offered through the correspondence study method, one-half of which are general education courses. All courses are prepared and supervised by regular members of the faculty and attempts are made to assure comparability to resident courses.

Western adheres very carefully to the regulations established by the State Board of Education concerning the offering of courses by correspondence. A partial listing of these requirements is shown under the "degree requirements" of this bulletin.

High school students may also pursue secondary school credit through the course offerings of this office which includes 33 one-half units of instruction in English, geography, government, health, history, mathematics, science and social science. High school students must secure the permission of their principal, counselor or superintendent before an application is acceptable.

COURSES OF INSTRUCTION

The letter in parentheses designates the general education category.

ACCOUNTING
200 Elementary Accounting I. 3 hours.
201 Elementary Accounting II. 3 hours.

BIOLOGY
100 Physiological Hygiene. 3 hours.
148 Principles of Biology. 3 hours. (D)

BUSINESS ADMINISTRATION
310 Organization and Management. 3 hours.
320 Basic Marketing Concepts. 3 hours.
435 Commercial Bank Management. 3 hours.

BUSINESS EDUCATION AND OFFICE ADMINISTRATION
161 Business Arithmetic. 3 hours.

COMMUNICATION AND THEATRE
111 Survey of Mass Media. 3 hours. (F)
340 Parliamentary Procedure. 1 hour.

ECONOMICS
202 Principles of Economics (Micro). 3 hours. (C)
203 Principles of Economics (Macro). 3 hours. (C)

ENGINEERING TECHNOLOGY
280 Introduction to Environmental Studies. 3 hours. (F)

ENGLISH
101 Freshman English. 3 hours. (A)
183 Introduction to Literature. 3 hours. (B)
303 Creative Writing. 3 hours.
381 Survey of English Literature I. 3 hours. (F)
382 Survey of English Literature II. 3 hours. (F)
388 Victorian Literature. 3 hours.
390 Masterpieces of American Literature. 3 hours. (B)

GEOGRAPHY
471 Conservation of Natural Resources. 3 hours. (C)

GOVERNMENT
100 Introduction to Political Science. 3 hours. (C)
110 American National Government. 3 hours. (C)
252 International Politics. 3 hours. (C)
316 The Legislative Process. 3 hours.
370 Political Parties. 3 hours.

HEALTH AND SAFETY
100 Personal Health. 3 hours. (E)
270 General Safety. 3 hours. (F)

HISTORY
119 Western Civilization to 1648. 3 hours. (C)
120 Western Civilization since 1648. 3 hours. (C)
140 The United States to 1865. 3 hours. (C)
141 The United States since 1865. 3 hours. (C)
305 Ancient Greece. 3 hours. (B)
306 Ancient Rome. 3 hours. (B)
352 The American West. 3 hours.
335 Twentieth Century Europe. 3 hours. (C)
365 The Latin American Republics. 3 hours.
456 Kentucky History. 3 hours.

College courses offered by correspondence are delineated below by number, title and department. Descriptions of these courses are given in this bulletin in the course-offerings section under specific academic departments.

INFORMATION SYSTEMS AND DISTRIBUTIVE EDUCATION
100 Introduction to Business. 3 hours.

JOURNALISM
202 Basic Reporting. 3 hours. (A)

MATHEMATICS
118 Algebra and Trigonometry. 5 hours. (D)

PHYSICAL EDUCATION AND RECREATION
300 Introduction to Community Recreation. 3 hours.
330 History and Principles of Physical Education. 3 hours.
455 Administration of Health and Physical Education. 3 hours.
490 Evaluation in Physical Education. 3 hours.

PSYCHOLOGY
100 Introduction to Psychology. 3 hours. (C)
199 Developmental Psychology. 3 hours. (C)
260 Psychology of Social Behavior. 3 hours. (C)
331 Child Psychology. 3 hours.

SOCIOLOGY AND ANTHROPOLOGY
110 Introduction to Sociology. 3 hours. (C)
150 Introduction to Anthropology: Man & Culture. 3 hours. (C)
250 Social Problems. 3 hours. (C)
355 The Community. 3 hours.
333 Criminology. 3 hours.
445 Industrial Sociology. 3 hours.
450 Occupations and Professions. 3 hours.

For a catalog of all high school and college correspondence course offerings, regulations, and enrollment form, write the Office of Independent Study, 203 Van Meter Hall, Western Kentucky University, Bowling Green, Kentucky 42101 or telephone 502/745-4158.

Graduate College

CRAVENS GRADUATE CENTER AND LIBRARY, ROOM 102
Dr. Elmer Gray, Dean

The Graduate College offers the following degrees and programs: Master of Arts (child development and family living, economics, English, folk studies, government, history, humanities, psychology, sociology, Spanish and speech), Master of Arts in Education (See Graduate Catalog for complete listing of majors and minors), Master of Science (agriculture, biology, chemistry, geography, health, library science, mathematics, physical education, physics, recreation and textiles and clothing), Master of Business Administration, Master of Music, Master of Public Service (options in administration, agriculture, city and regional planning, counseling and regional development), Specialist in College Teaching (English and history), Specialist in Education (counseling, elementary education, school administration and secondary education), Cooperative Doctoral (with the University of Louisville), Joint Doctoral (with the University of Kentucky) and nondegree rank and certification programs in professional education.

Seniors at Western Kentucky University or one of the cooperating consortium colleges may enroll in graduate course work during their final undergraduate semester provided they make formal application to graduate study and meet the Graduate College regulations as stated in the Graduate Bulletin/Catalog.

Additional information may be obtained by referring to the Graduate College Bulletin/Catalog or writing directly to the Dean of the Graduate College.

Public Service and International Programs

CRAVENS GRADUATE CENTER AND LIBRARY, ROOM 200
Dr. Raymond L. Cravens, Dean

The Dean of Public Service and International Programs has responsibility for development, coordination and implementation of university-wide programs and activities in the area of public service and in the area of international programs. Additional information about any of the following programs may be obtained by writing to the Dean.

PUBLIC SERVICE

The academic public service provided by Western Kentucky University focuses the personnel and other resources of the University upon the "identification, understanding, and resolution of public problems." Services may extend to an individual level when the service relates to an educational program or a professor's expertise. The clients for academic public service include governments, area development districts, public interest groups, civic organizations, business and industrial organizations, universities and agencies abroad and, when appropriate, individual citizens.

INTERNATIONAL EDUCATION

Western's international education activities and programs enhance the educational standing of the University, enrich the curriculum and provide unique opportunities for faculty and student involvement in significant international experiences. The administrative offices of International Projects, International Student Affairs and Latin American Studies Center are coordinated, supervised and directed by the Dean of Public Service and International Programs.

INTERNATIONAL PROGRAMS

Many of the academic programs offered at Western and listed in this catalog deal in individual courses with aspects of different cultures, international relations and different regions of the world other than the United States and Anglo-America. This international education component is specifically present in the programs of economics, foreign languages, geography, government, history, philosophy and religion, sociology and anthropology, communication and theatre and teacher education. Other programs offer interdisciplinary studies in contemporary regions and cultures such as in Asian Studies and Latin American Studies. A proposed program in West European Studies is in the developmental stages.

In 1973, Western received from the U.S. Office of Education (HEW) a grant to strengthen international dimensions of general education at the undergraduate level. In 1976 Western was one of ten U.S. universities to receive a grant for the establishment of a Latin American Language and Area Studies Center. In 1977 Western Kentucky University recognized the need for intensifying and integrating its growing international programs by putting these programs under the Office of the Dean of Public Service and International Programs.

Besides those permanent programs fully or in part related to international education, Western offers a variety of programs consistent with the objectives of the university, providing international experiences through studies, research and service abroad to its students and faculty. New programs are in the process of development through Western's cooperative activities with the Partners of the Americas Program (Kentucky-Ecuador) and the Sister Cities International Program (Bowling Green and Santo Domingo de los Colorados, Ecuador).

In addition to its own programs, Western is a charter member of the Kentucky Council for International Education, which is composed of collegiate institutional representatives from the state and independent institutions and other state agencies. The KCIE was formed for the purpose of promoting cooperation in international education programs among institutions of higher education in the Commonwealth. The Kentucky Council is currently located at Western Kentucky University, Room 200, Cravens Graduate Center. Western students may, when properly recommended, participate (enroll) in international education programs at other Kentucky institutions in the same manner as students from the sponsoring institution.

The Office of Public Service and International Programs provides up-to-date information on study-abroad programs offered by other American and foreign colleges, universities and agencies and will advise Western students how to contact advisors for these programs.

Western's International Programs are described below:

Study Travel Programs

Various departments of the University frequently provide special short-term study tour courses. Examples of travel programs include a Guatemala and Central America Tour, a London Fashion Tour and a cooperative program, Español en España, in Madrid. In addition, the Communication and Theatre Department sponsors a London Theatre Tour beginning on December 26 and lasting for two weeks.

A five-week summer term in England was initiated during the summer of 1979. This program features lectures on British campuses and lodging with British families.

Western Kentucky University is cooperating with Murray State University in a summer program for students of German at Bregenz, Austria. Inquiries should be directed to Dr. Thomas P. Baldwin, Room 280, Ivan Wilson Center for Fine Arts.

The programs offer students international experience on a short term and low budget basis. Thus, they are viewed as providing an option for an international education experience to students who do not wish to commit a full semester or year to study abroad and who wish a less expensive program than the long-term study abroad programs.

Students interested in the short-term study travel programs should contact their academic departments or the Office of Public Service and International Programs, CGC 200.

Student Teaching Abroad

Opportunities are offered for students to obtain their student teaching experience in binational schools in Guatemala, Colombia, Costa Rica, England, Belgium and in other selected academic areas. Advisement is coordinated by Dr. William Nolan, Director of International Exchange and Student Affairs, CGC 209 or Department of Teacher Education, CEB 315.

Field Research Seminars and Practica Abroad

For students enrolled at Western, undergraduate and graduate credit may be earned in summer field research seminars for upper division undergraduate and graduate students. These seminars, offered during regular summer sessions and held in cooperation with Latin American sister universities at selected locations, are offered in Latin America only.

Opportunities also exist for practica in certain academic programs with assignments in Latin America only. For advisement on summer field research seminars and practica abroad, students should see their academic department advisor or Dr. E. E. Hegen, Director of International Projects, CGC 207.

AIESEC

An International Association of Economics and Management Students provides an opportunity for qualified individuals to participate in a paid, management-level internship in companies in 54 different countries. The organization also enables students interested in international business to meet business leaders in the Bowling Green business community. Dr. Thomas P. Baldwin is the faculty advisor, FAC 280.

CIDE

Western cooperates with Corporación Internacional para el Desarrollo Educativo (International Corporation for Educational Development), Bogotá, Colombia. CIDE offers student exchanges and summer session as well as regular semester assistantships for advanced undergraduate and graduate students in art, computer science, biology, English, geography, home economics and industrial education and technology. Students interested in these opportunities should contact their departmental academic advisor or Dr. E. E. Hegen, Director of International Projects, CGC 207.

WKU-Universidad Austral De Chile Program

Through a cooperative program in existence for the past seven years and under terms of a formal agreement of cooperation, WKU and Universidad Austral de Chile, Valdivia, Chile are pursuing the objective of student and faculty exchanges and cooperative research and service projects. Dr. E. E. Hegen, 207 CGC, is the coordinator of this program.

Graduate Study Abroad

Students completing a baccalaureate degree at Western and interested in graduate studies abroad should consult the Office of International Projects, CGC 207, for information on such opportunities.

Western in France Program

Faculty Advisors: J. Babcock, M. Ritter
Department of Foreign Languages, Ivan Wilson Center for Fine Arts

The University offers a ten-month program of academic study at the Université Paul Valéry (Montpellier III) in Montpellier, France. Application for admission to the program is open to all Western students who meet the following general criteria: (1) junior (third year) standing during the year of study abroad; (2) proficiency in the French language equal to college intermediate level; and (3) a cumulative grade point standing of at least 2.5.

The program is not restricted to French language majors but is open to students from all academic disciplines. Students may study any field offered by the University at Montpellier including such areas as fine arts, humanities, languages, social sciences, natural sciences, engineering or technology. The Western student is enrolled as a regular student at the French university and is provided the same educational experience as the regular French student. The average student will earn approximately thirty credit hours during the academic year abroad, including an intensive language course in Lyon prior to opening of the school year.

The dates of the program vary slightly each year, but generally the dates are from September 1 to June 15. The cost of the program also varies, although it is based on the approximate cost of an out-of-state student at Western Kentucky University plus transportation. The fee (about $3,500 for 1978-1979) covers all expenses including round trip transportation to and in France, tuition, room, board, meal supplement and resident advisor.

Specific information and application forms can be obtained from any member of the French faculty.

AASCU Study Center in Brazil

An international study center in Brazil has been established under the sponsorship of the American Association of State Colleges and Universities (AASCU). The center exists to increase the international/intercultural dimensions of undergraduate and graduate education. Western is an active member of the AASCU Consortium for International Education and is able thereby to extend opportunities to WKU students to study at the AASCU Brazil Center.

Information on admission, academic credit, dates of sessions and cost of any of the AASCU programs may be obtained from Dr. C. P. Brown, FAC 251.

Center for Latin American Studies

Director: E. E. Hegen, 207 CGC

The Center for Latin American Studies was established at Western in 1976. In that year the University was designated as a Latin American Language and Area Studies Center by the U.S. Office of Education and was the recipient of a grant to help support the Latin American Studies program. Western is one of only ten universities in the country to receive this designation.

The Center for Latin American Studies is responsible for administering grant funds, coordinating and strengthening the Latin American Studies resources at the University, sponsoring the Annual Spring Conference on Latin America and other seminars and guest speakers and engaging in a program of "outreach" to share Latin American Studies resources with communities, groups, schools and the general public of Western's service area.

The office of the Center is located in Room 202, Cravens Graduate Center, and further information is available by contacting the Director at that address.

Minor in Latin American Studies — The minor in Latin American studies (reference number 408) requires a minimum of 21 semester hours. The minor consists of courses relevant to Latin America with representation from at least four academic departments and successful completion of two years of college Spanish or Portuguese or its equivalent.

Courses acceptable for the minor include: ANTH 355; ECON 370; GEOG 454, 462; GOVT 351, 462; HIST 364, 365, 465; SPAN 370, 371, 373, 374, 477. Students should confer with the program advisor in planning their programs or for further information concerning the program.

The Latin American Studies Program is an interdiscipli-

nary program designed to permit the student to achieve a coherent and balanced understanding of the most pertinent facets of Latin American life, culture and institutions. Additionally, this program will enlarge perspectives and increase skills appropriate to the student's fuller participation in Western affairs, no matter what career he/she contemplates. There are, however, many government departments and agencies, as well as countless private organizations, which are constantly in need of persons trained in Latin American affairs.

LATIN AMERICAN STUDIES

200 Introduction to Latin America. 3 hours.
This course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures. Since this course is taught by various departments, see Latin American Studies Advisor for enrollment.

Asian Studies

Faculty Advisor: K. Kalab, CH 104

Minor in Asian Studies — The minor in Asian studies (reference number 317) requires a minimum of 21 semester hours. The student must specialize in one of the three topical areas (South and Southeast Asia, East Asia and The Middle East) by taking twelve semester hours. The additional nine hours must be chosen from the remaining approved courses; no more than six hours of 100-level language courses.

The student must develop a program by drawing upon at least three of the cooperating departments, and no more than three hours can be credited toward the minor from the discipline of the student's major.

One hundred level courses cannot be taken for the 21-hour minor in Asian Studies except in Asian languages.

Approved courses include: ART 304, 306; LNG 190 (Chinese, Japanese, Arabic); GEOG 453, 465, 467; GOVT 353, 461, 465, 466, 467, 468; HIST 338, 438, 461; MUSIC 430; REL 220, 312, 321, 401, 455, 460, 465.

The Asian Studies program attempts to provide an international, cross-cultural emphasis for the undergraduate student. Its aim is to focus on a cultural-geographical area and afford the student an interdepartmental approach to sympathetic understanding of the life style of the people who inhabit the area. It draws upon the talents of the professors within the University, and utilizes courses offered within the various departments of the several colleges.

Interested persons should consult the program advisor.

Office of International Projects

Director: E. E. Hegen, CGC 207

The role of the Office of International Projects is to seek, develop, and initiate cooperative projects between Western Kentucky University and sister institutions abroad. Such projects include academic and technical assistance programs in which an increasing number of Western's students and faculty are involved. Among completed and ongoing projects are numerous programs sponsored by international agencies and university to university projects in Chile, Colombia, Ecuador, Peru, and Venezuela. New projects are being developed in other Latin American countries.

International Student Affairs

Director of International Exchange and Student Affairs:
William J. Nolan

Western welcomes every year among its new students a small but growing number of foreign students. Foreign student alumni have come from all parts of the world.

Special efforts are made to make the students from foreign countries and different cultures feel at home on campus and in the community. While foreign students are encouraged to participate in all social events of Western's International Student Club, the University and all foreign students make every effort to benefit from their prolonged and close association and contacts between peoples from different parts of the world.

Academic matters should be discussed with the student's academic advisor, department head, the Director of the Center for Academic Advisement, Career Planning and Placement and, in the case of graduate students, with the Dean of the Graduate College.

International students should consult with the International Student Advisor before applying to extend visas, transferring to or from the University, leaving the University for any reason, accepting part-time employment, engaging in summer employment or changing the place of residence in Bowling Green. Students from other countries are responsible for remaining in good standing with the United States Government. This includes forwarding an address notice to the headquarters of the Immigration and Naturalization Service within ten days after a change occurs. A printed postcard notice form (available at the United States Post Office) should be used in making the address report.

Fulbright Faculty and Student Exchange

Faculty Advisor: Carlton Jackson, CH 215a
Student Advisor: Carol P.Brown, IWFAC 253

The Fulbright international exchange of scholars provides opportunities for carefully selected WKU and foreign university professors to teach and conduct research abroad for up to a full academic year. Dr. Carlton Jackson, Professor of History, has full details regarding application for participation in this program.

Fulbright student grants for study and research abroad are available to well-qualified applicants holding a bachelors degree or the equivalent before the beginning date of the grant. Selection is based on academic record, validity of the proposed study, language preparation, and personal qualifications. Interested students should contact Dr. Carol Brown, Head of the Foreign Language Department.

Scholastic Development

WETHERBY ADMINISTRATION BUILDING, ROOM 108
Dr. Ronnie Sutton, Dean

Scholastic Development is a division of Academic Affairs which includes the Office of Admissions, New Student Orientation Program, Office of the Registrar, Center for Academic Advisement, Career Planning and Placement, and University Counseling Services Center. This division also publishes the undergraduate catalog and the Fall and Spring Semester schedule bulletins.

OFFICE OF ADMISSIONS

The Office of Admissions disseminates information and materials to prospective students, seeks to admit individuals who will profit from the broad spectrum of educational opportunities at Western, establishes students' permanent records and coordinates relations with the junior and community colleges. For more detailed information on admission policies and procedures refer to the earlier section of this catalog, Enrolling at Western, or write to the Office of Admissions.

NEW STUDENT ORIENTATION PROGRAM

The New Student Orientation Program seeks to aid new students in making a smooth transition to the University community by providing information and assistance to all new, full-time freshmen, transfer and readmission students. For more information, consult the Enrolling at Western section of this catalog, or write to the Coordinator of Orientation.

OFFICE OF THE REGISTRAR

The Office of the Registrar is responsible for all registration programs, all graduation ceremonies and the collection, storage and retrieval of student academic data and records. More detailed information on registration policies and procedures can be obtained by consulting the section, Enrolling at Western, in this catalog, or by writing the Office of the Registrar.

CENTER FOR ACADEMIC ADVISEMENT, CAREER PLANNING AND PLACEMENT

The Center for Academic Advisement, Career Planning and Placement assists the undecided student through academic advisement, coordinates a university-wide program of academic advisement, offers immediate and long-range academic counseling and career planning, approves all undergraduate degree programs, assists students in the job search process, and administers the university's academic probation, attendance and dismissal policies. For further information on this program, consult the section of this catalog, Enrolling at Western, or write to the Center for Academic Advisement, Career Planning and Placement.

UNIVERSITY COUNSELING SERVICES CENTER

The University Counseling Services Center provides personal, vocational and educational counseling to students upon request, serves as a national testing center for ACT, GRE, GED and other specialized tests and provides supervised counseling experience for students in the Counselor Education and Clinical Psychology Programs. For more information consult the Enrolling at Western section of this catalog, or write the University Counseling Services Center.

Academic Services

CRAVENS GRADUATE CENTER AND LIBRARY, ROOM 502
Dr. Henry Hardin, Dean

Academic Services provides support to the research and instructional programs of the University. This support is accomplished through the activities and programs of the Division of Library Services and the Division of Media Services. The purpose of these programs is to stimulate and foster increased and more functional utilization of all instructional resources of the University.

DIVISION OF LIBRARY SERVICES

The purpose of the Division of Library Services is to select, acquire, organize and prepare for use all print and nonprint resources. It further provides reference services, reader guidance, orientation and circulation control for all materials available for instruction. Services and resources are available in seven locations.

The **Helm Library** provides central reference and interlibrary loan services for the library system, a college catalog collection, a copy center, the principal university journal collection, the law and tax research center, a juvenile book collection and a general collection relating to the sciences. A media retrieval center is provided. This

center houses and circulates a wide variety of audiovisual materials which may be accessed through sixty-four electronically equipped stations. An extensive microform collection with indices and related reading equipment is located on the second floor of Helm Library. The **University Archives,** located in Gordon Wilson Hall, contains a collection of materials on the history of Western Kentucky University including records on the predecessor colleges and the private schools merged into WKU. A wide array of albums, diaries, minutes and records of student sponsored activities are an interesting record of campus life.

Cravens Library adjoins the Helm Library. Service functions in this nine-story structure include technical services where all resources are acquired, cataloged and processed for use. Centralized computer on-line circulation of books and other resources are managed from the fourth floor of this building. Catalog information is concentrated near circulation and is also distributed throughout the library system using Computer Output Microfiche (COM) Catalogs in all reference and collection areas. Books are arranged into divisional collections of Education, Humanities, Social Sciences and Government Documents. Books which receive high circulation because of their nature or demand by faculty are placed in the reserve collection with limited circulation restrictions.

The **Kentucky Library** is housed in the Kentucky Building. The Kentucky Library collection and manuscript collection contains study and research collections relating to Kentucky life and history. These collections contain books, manuscripts, microforms, pamphlets, newspapers, magazines, scrapbooks, diaries, sheet music, hymnals and many other types of valuable primary resources materials.

The **Kentucky Museum,** also located in the Kentucky Building, contains exhibits relating to Kentucky life and history. A wide variety of study collections not on exhibit include historical, anthropological, biological and artistic objects and specimens. The museum collections are primarily related to the heritage and environment of early America with emphasis on Kentucky materials.

Historical items include furnishings and cultural artifacts associated with frontier life, crafts, trades and recreational pursuits. Prehistoric objects, biological specimens and art works are developed and maintained into special displays to enhance understanding of the various periods exhibited.

The **Science Library** located in the Thompson Science Complex provides reference services and the circulation of books and materials in the fields of biology, chemistry, physics, agriculture, mathematics, computer science and engineering technology. Carrels for the retrieval of instructional materials on video tapes, filmstrips and audio tapes support the instructional programs in the sciences.

The **Educational Resources Center** is located on the third and fourth floors of the College of Education. This center provides instructional materials which support the curriculum of the departments of the College of Education, the teacher training program and the College of Applied Arts and Health. The resources Center provides both book and nonprint materials including video tapes, multi-media kits, filmstrips and other audiovisual aids. Listening and viewing carrels are available for the use of these resources. The Journalism Resources Center, also located on the third floor of the College of Education, contains books, journals, and newspapers in support of the Department of Journalism.

The **Jones-Jaggers Laboratory School Instructional Materials Center** is located in the Jones-Jaggers Laboratory School.The Center furnishes library and instructional resources in support of the programs conducted in that school and the teacher education program.

DIVISION OF MEDIA SERVICES

The purpose of Media Services is to produce or acquire nonprint materials to meet instructional needs, to provide assistance in and maximize the use of media resources and to provide laboratory facilities in support of media related instructional programs. These services are the responsibility of the audiovisual and educational television areas, which provide them in three areas — campus services, production services and the campus radio station.

Campus services make available to academic units films, audiovisual equipment and television equipment distribution. The location of these services is in the College of Education Building and the Robert C. Cochran Wing of the Academic Complex.

The instructional program at Western Kentucky University is served with 16mm films through rental from external sources, from the Audio Visual Center Film Library or from the Third District Film Library, which contains, at the present, over 2,000 titles totaling approximately 3,000 individual films.

Audiovisual equipment is provided throughout the entire campus for faculty use. This equipment includes audiotape recorders, cameras and projectors of all types. The Audio Visual Center distributes the equipment to the point of use.

The television closed circuit distribution system and portable video cassette machines provide for the utilization of videotaped materials. Portable videotape recording equipment is provided for faculty use in microteaching and other applications. The materials available for playback include locally produced videotapes and those acquired from external sources.

Production services furnish material to meet specific needs of academic areas. These include television and audiovisual productions.

A staff of professional television production specialists engage in the production of color videotapes and 16mm motion pictures for instructional application. These videotapes are produced in the studios and at remote locations.

The individual services which the audiovisual area can provide are:

- 35mm slides — copying and original photography
- slide/slide tape presentations
- 35mm film strips
- overhead transparencies
- photographic processing and printing
- audiotape duplication
- production of audiotapes (e.g., recording of visiting speakers)
- graphic materials — transparency masters, posters and charts, television and film visuals and art work for slide presentations.

WKYU, the campus radio station, is operated as a professional laboratory for broadcasting students. Programming originates from the studios in the Academic Complex and is routed to transmitters in each of the dormitories on campus. Its 580KHz signal is available to all dormitory residents.

Those interested in more information about academic services should consult the relevant material in this catalog or write directly to the appropriate unit or to the Dean of Academic Services.

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ORGANIZATION OF THE UNIVERSITY

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Juanita Park, M.A.	Assistant Director of Special Programs
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Lee Robertson, M.A.	Director of Alumni Affairs
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Lon Slaughter	Director of Food Services
Harold Smith, B.S.	Director, Department of Accounts and Budgetary Control
Robert Somers, M.A.	Career Advisor
A. J. Thurman	Director, Financial Aid
James B. Tomes, B.S.	Director, Department of Personnel Services
Thomas L. Updike, Jr., Ed.D.	Director of Admissions
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Lee Watkins, B.S.	Assistant Director, Financial Aid
Jerry Wilder, Ed.D.	Director of Center for Academic Advisement, Career Planning and Placement
Howard Ziegel, M.D.	Director of Health Services

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Georgia Bates	Executive Secretary-Treasurer
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FACULTY OF THE UNIVERSITY

	Degree, Institution/Rank, Department
ZACHARIAS, DONALD W. 1979	Ph.D., Indiana University, Professor, Communication and Theatre, President
DAVIS, JAMES L. 1964	Ph.D., Northwestern University, Professor, Geography, Vice President for Academic Affairs
MINTON, JOHN D. 1958	Ph.D., Vanderbilt University, Professor, History, Vice President for Administrative Affairs
ADAMS, AGNES S. 1977	M.A., University of Missouri, Instructor, Library Services
ADAMS, BILLY M. 1953	M.S., University of Kentucky, Associate Professor, Agriculture
ADAMS, ROBERT 1966	M.A., Western Kentucky University, Associate Professor, Journalism
ADAMS, RONALD D. 1970	Ed.D., University of Southern Mississippi, Professor, Educational Services
AHMAD, ZAFAR M. N. 1977	Ph.D., Pennsylvania State University, Assistant Professor, Sociology, Anthropology and Social Work
AHMED, S. BASHEER 1970	Ph.D., Texas A & M University, Professor, Economics
AHSAN, S. REZA 1968	Ph.D., University of Florida, Professor, Geography and Geology
ALBADAWY, ALI ADEL 1978	M.B.A., Middle Tennessee State, Instructor, Business Administration. D.B.A. Candidate, University of Tennessee
ALBIN, MARVIN L. 1978	Ed.D., Arizona State University, Associate Professor, Business — Distributive Education and Office Administration
ALEXANDER, ALONZO D. 1969	B.S., Western Kentucky University, Assistant Instructor, Ogden College of Science and Technology
ALEXANDER, LIVINGSTON 1977	Ed.D., University of Houston, Assistant Professor, Psychology
ALDRIDGE, CHARLES R. 1978	M.B.A., C.P.A., Western Kentucky University, Assistant Professor, Accounting
ALFORD, EMERY E. 1974	M.M., Western Kentucky University, Assistant Professor, Music
ALI, AHMED 1978	M.A., Lucknow University, Visiting Professor, History
ALLAN, LINDA L. 1973	M.L.S., University of Pittsburgh, Assistant Professor, Library Services
ALLEN, HARRY L. 1978	B.S.J.M., University of Florida, Instructor, Journalism. M.A. Candidate, University of Florida
ALLEN, RACHEL SMITH 1963	M.A., Western Kentucky University, Assistant Professor, Business — Distributive Education and Office Administration
ALLSEN, THOMAS 1979	Ph.D., University of Minnesota, Assistant Professor, History
ALMAND, JEAN M. 1974	M.S.L.S., Western Kentucky University, Assistant Professor, Library Services
ALMOND, VIRGIL L. 1964	M.B.A., Harvard University, Assistant Professor, Management and Marketing
ANDERSON, CHARLES E. 1978	M.S., Texas A&M University, Instructor, Agriculture
ANDERSON, CHARLES M. 1971	Ph.D., Indiana University, Associate Professor, Academic Services and Communication and Theatre
ANDERSON, ROBYE E. 1961	Ed.S., George Peabody College, Associate Professor, Physical Education and Recreation
ANDERSON, SANDRA GAIL 1979	M.S.L.S., University of Kentucky, Instructor, Library Services
ANDREWS, DUANE D. 1972	M.S.S.W., University of Tennessee, Associate Professor, Sociology, Anthropology and Social Work
ASHLEY, J. WAYNE 1972	Ed.D., University of Kentucky, Associate Professor, Educational Leadership

ATKINS, T. VIRGINIA 1971	—	Ph.D., Texas Woman's University, Associate Professor, Home Economics and Family Living
AUSENBAUGH, JAMES D. 1976		B.A., University of Kentucky, Assistant Professor, Journalism
AYRES, RICHARD C. 1979		M.Ed., University of Missouri-Columbia (Doctoral Candidate, University of Missouri-Columbia) Assistant Professor, Management and Marketing
***BAALI, FUAD G.** 1968	—	Ph.D., Louisiana State University, Professor, Sociology, Anthropology and Social Work
BABCOCK, JAMES C. 1964	—	Ph.D., Vanderbilt University, Associate Professor, Foreign Languages
BAILEY, DONALD W. 1962	—	Ph.D., Emory University, Professor, Biology
BAIRD, NANCY D. 1975		Ed.S., Western Kentucky University, Assistant Professor, Library Services
BAIZE, ROBERT G. 1975		A.A., Brescia College, Associate Instructor, Media Services
BAKER, CLARENCE H. 1975		M.A., Western Kentucky University, Instructor, Physical Education and Recreation
BAKER, JAMES T. 1968	—	Ph.D., Florida State University, Professor, History
BAKER, JOHN (SFC) 1976		Instructor, Military Science
BAKER, ROBERT L. 1979		M.A., University of South Carolina, Instructor, Journalism
BALDWIN, THOMAS P. 1968	—	Ph.D., University of Wisconsin, Associate Professor, Foreign Languages
BARKSDALE, JAMES B., JR. 1968	—	Ph.D., University of Arkansas, Associate Professor, Mathematics and Computer Science
BAUGHMAN, BILLIE M. 1973		M.S., Emory University, Assistant Professor, Nursing
BAUGHMAN, W. HENRY 1970		H.S.D., Indiana University, Associate Professor, Health and Safety
BAUM, ROBERT A. 1972		H.S.D., Indiana University, Associate Professor, Health and Safety
BAXTER, ROBERT L. 1977		M.S.E.E., University of Tennessee, Assistant Professor, Engineering Technology
BEACH, BENNIE P. 1953		M.Ed., George Peabody College, Professor, Music
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STRANDE, BARBARA 1975	M.P.S., Western Kentucky University, Assistant Professor, Nursing	
STRINGER, CAROLYN 1976	M.A., Western Kentucky University, Assistant Professor, Journalism	
STROUBE, WILLIAM H. 1966	Ph.D., Louisiana State University, Professor, Agriculture	
SULLIVAN, BRIAN 1976	J.D., University of Kentucky, Assistant Professor, Management and Marketing	
SULLIVAN, EUGENE (SSG) 1976	Supply Sergeant, Military Science	
SURVANT, JOSEPH W. 1970	Ph.D., University of Delaware, Associate Professor, English	
SUTTON, RONNIE N. 1963	Ed.D., University of Kentucky, Assistant Professor, Educational Leadership	
SYDNOR, WALLACE B. 1964	M.A., Western Kentucky University, Assistant Professor, Physical Education and Recreation	
TATE, BOYCE D. 1965	M.C.E., Prof. Engr., University of Virginia, Associate Professor, Engineering Technology	
TAYLOR, CRAIG H. 1967	M.A., Indiana University, Assistant Professor, Sociology, Anthropology and Social Work. Ph.D. Candidate, Indiana University	
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***TAYLOR, KEITH H.** 1970	Ed.D., Indiana University, Associate Professor, Teacher Education	
TAYLOR, MICHAEL L. 1977	M.F.A., University of California, Los Angeles, Assistant Professor, Art	
TAYLOR, PATRICIA, M. 1968	M.A.T., Indiana University, Assistant Professor, Communication and Theatre. Ph.D. Candidate, Southern Illinois University	
TAYLOR, RICHARD B. 1966	Ed.D., University of Oklahoma, Associate Professor, Business — Distributive Education and Office Administration	
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TESKE, ROBERT T. 1977	Ph.D., University of Pennsylvania, Associate Professor, Intercultural and Folk Studies	
THACKER, JACK W., Jr. 1964	Ph.D., University of South Carolina, Professor, History	
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THOMPSON, FRANCIS H. 1969	Ph.D., Texas Tech University, Professor, History	
THURMAN, MARY E. 1966	M.A., George Peabody College, Assistant Professor, Library Services	
TOMAN, FRANK R. 1966	Ph.D., Kansas State University, Associate Professor, Biology	
TOMAZIC, T. NORMAN 1972	Ph.D., Ohio State University, Associate Professor, Industrial Education and Technology	
TOUPS, POLLY A. 1969	Ph.D., Tulane University, Associate Professor, Sociology, Anthropology and Social Work	
TOWELL, DELBERT C. 1974	Ed.D., Texas A&M University, Assistant Professor, Industrial Education and Technology	
TRAFTON, JOSEPH L. 1977	Th.M., Gordon-Cornwell Divinity School, Instructor, Philosophy and Religion. Ph.D. Candidate, Duke University	
TRAUGHBER, THAYTON M. 1977	M.M.A., University of South Carolina, Instructor, Media Services and Communication and Theatre	
TRAUGOTT, WILLIAM M. 1977	Ph.D., Kansas State University, Associate Professor, Educational Leadership	
TROUTMAN, RICHARD L. 1967	Ph.D., University of Kentucky, Professor, History	
TUCK, DONALD R. 1969	Ph.D., State University of Iowa, Professor, Philosophy and Religion	
TUREK, ROBERT O. 1976	M.S.L.S., Case Western Reserve University, Instructor, Library Services	
TWADDLE, DAN R. 1979	M.L.S., Emporia State University, Assistant Professor, Library Science and Instructional Media. Ph.D. Candidate, Indiana University.	
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UTLEY, KENNETH W. 1965	Ph.D., Ohio State University, Associate Professor, Business — Distributive Education and Office Administration	
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VEENKER, RONALD A. 1968	Ph.D., Hebrew Union College, Professor, Philosophy and Religion	
VEITSCHEGGER, RODNEY D. 1964	M.B.A., C.P.A., University of Washington, Associate Professor, Accounting	
VERNER, JOANNE 1972	M.P.S., Western Kentucky University, Assistant Professor, Physical Education and Recreation	
VOKURKA, JOHN F. 1974	Ed.D., Indiana University, Associate Professor, Teacher Education	
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WALKER, LARRY P. 1978	M.Ed., North Texas State University, Instructor, Physical Education and Recreation	
WALLACE, LYSBETH M. 1965	M.F.A., Cranbrook Academy of Art, Professor, Art	
WALLACE, KYLE 1970	Ph.D., Vanderbilt University, Associate Professor, Mathematics and Computer Science	
***WANAMAKER, DANIEL K.** 1973	D.P.A., University of Georgia, Assistant Professor, Government	
WARD, CATHERINE 1971	M.A., Marquette University, Assistant Professor, English. Ph.D. Candidate, University of Iowa	
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WARD, ROBERT E. 1969	Ph.D., State University of Iowa, Professor, English	
WASSOM, EARL E. 1967	Ed.D., Oklahoma State University, Professor, Library Services	
WASSOM, JOHN C. 1971	Ph.D., Indiana University, Professor, Economics	
WATSON, MARTHA F. 1962	Ph.D., University of Kentucky, Professor, Mathematics and Computer Science	
WATSON, THOMAS W. 1967	D.M.E., University of Oklahoma, Professor, Music	
WATTS, DAVID B. 1966	Ed.D., University of Kentucky, Professor, Teacher Education	
WEAVER, WILLIAM C. 1961	M.A., Ohio State University, Professor, Art	
WEIGEL, RICHARD D. 1976	Ph.D., University of Delaware, Associate Professor, History	
WELLS, CARROLL G. 1968	Ph.D., Vanderbilt University, Professor, Mathematics and Computer Science	
WENDT, DONALD D. 1962	Ed.D., University of Missouri, Professor, Industrial Education and Technology	
WESOLOWSKI, JAMES W. 1969	Ph.D., University of Wisconsin, Associate Professor, Communication and Theatre	

WESSING, ROBERT 1978	Ph.D., University of Illinois, Assistant Professor, Sociology, Anthropology and Social Work	
WHEAT, DALLAS L. 1965	M.M., Utah State University, Assistant Professor, Mathematics and Computer Science	
WHICKER, GENE A. 1975	M.S., University of Kentucky, Assistant Professor, Library Services	
WHITAKER, DAVID B. 1970	M.A., Western Kentucky University, Professor, Journalism	
WHITE, MARILYN 1977	M.A., Indiana University, Instructor, Intercultural and Folk Studies. Ph.D. Candidate, University of Texas	
WHITE, VERNON 1966	M.A., University of Tennessee, Associate Professor, Sociology, Anthropology and Social Work. Ph.D. Candidate, University of Georgia	
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WICKLANDER, DALE R. 1972	Ph.D., University of Minnesota, Associate Professor, Communication and Theatre	
WILDER, JERRY R. 1967	Ed.D., George Peabody College, Associate Professor, Educational Leadership	
WILKERSON, C. MANUEL 1956	M.S., University of Illinois, Associate Professor, Chemistry	
WILKINS, CURTIS C. 1965	Ph.D., Michigan State University, Professor, Chemistry	
WILLIAMS, KAREN L. 1978	B.S., University of Kentucky, Instructor, Dental Hygiene	
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WILSON, JOHN L. 1969	LL.M., University of Mississippi, Associate Professor, Management and Marketing. J.S.D. Candidate, University of Mississippi	
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WINSTEAD, JOE EVERETT 1968	Ph.D., University of Texas, Professor, Biology	
WOLFF, CLARENCE N. 1969	M.A., Western Kentucky University, Assistant Professor, Physics and Astronomy and Teacher Education	
WORTHINGTON, JAMES P. 1971	Ph.D., Ohio State University, Associate Professor, Agriculture	
WOZNIAK, PAUL R. 1971	Ph.D., University of Massachusetts. Professor, Sociology, Anthropology and Social Work	
WURSTER, ROBERT J. 1961	Ed.S., George Peabody College, Associate Professor, English	
YORK, RANDY J. 1970	Ph.D., University of Wyoming, Associate Professor, Mathematics and Computer Science	
YUNGBLUTH, T. ALAN 1966	Ph.D., University of Minnesota, Associate Professor, Biology	
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*On leave

EMERITI FACULTY

Adams, Marie, M.A.	Home Economics Education
Alden, Lenore H., A.B.	Library Services
Alford, Orland N., M.S.	Agriculture
Ashby, Robert M., M.A.	Business Education and Office Administration
Bale, Gertrude, M.M.	Music
Beal, Ernest O., Ph.D.	Biology
Bennett, George C., M.S.	Biology
Brightup, Donald L., M.S.	Library Services
Burt, Mary, M.A.	Dean of Women
Calloway, James E., Ph.D.	History
Carver, Gayle	Kentucky Library
Cates, Clyde B., M.B.A.	Business Administration
Cave, M. Lourine, Ph.D.	Psychology
Chisholm, Mary, M.A.	Music
Clagett, Marjorie, M.A.	Foreign Languages
Clark, H. B., A.B.	Physical Plant
Clark, Martha Jean, A.B.	Library Services
Clarke, Kenneth W., Ph.D.	Center for Intercultural and Folk Studies
Clarke, Mary W., Ph.D.	Center for Intercultural and Folk Studies
Cole, Mary I., Ph.D.	Education
Coombs, Elizabeth	Librarian, Kentucky Library
Curry, Edith M., M.A.	English
Daniel, Della Mae, M.A.	Laboratory School
DiBella, Edward E., Ph.D.	Sociology
Dixon, Frances, M.A.	Communication and Theatre
Dooley, Glenn, Ph.D.	Chemistry
Downing, Dero G., D.H., L.L.D.	President Emeritus
Eberson, Frederick, M.D., Ph.D.	Health Services
Ellis, Lena C., M.A.	Business Education and Office Administration
Estes, Kenneth, Ed.D.	Educational Leadership
Farles, Fithian S., M.A.	Education
Farley, Seth, Ed.D.	Educational Leadership
Ford, Bessie M., A.B.	Librarian, Training School
Foster, Robert H., Ph.D.	Geography and Geology
Galbraith, Lilyan, Ph.D.	Home Economics Education
Garrett, Dorothy C., M.A.	Education
Garrett, Edward C., M.A.	Education
Gibson, Lurene, M.A.	Elementary Education
Griffin, Hubert P.	Housing
Harrison, Nettie, M.A.	Library Services
Helm, Margie, M.A.	Library Services
Hillard, Addie, Ed.D.	English
Hochstrasser, Addie, M.A.	English
Holland, Fannie, M.A.	Foreign Languages
Hornback, Vernon T., M.A.	Physical Education
Houston, Barnard Macauley, M.A.	Biology and Assistant Registrar
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Hume, Glee, M.A.	English
Jenkins, William M., Ph.D.	Government
Hutcheson, Louise, B.S.I.S.	Library Services
Jones, J. E., M.M., D.D.	Sociology, Anthropology and Social Work and Center for Intercultural and Folk Studies
Karsner, Milo G., Ph.D.	Physical Education
Kirchner, G. Fred, P.E.D.	Recreation
Laessig, Robert O., Ph.D.	Foreign Languages
Lancaster, L. Y., Ph.D.	Biology
Lively, Louise, M.A.	English
Lockwood, Mulford, D.V.M.	Health and Safety
Lowe, Emma, M.A.	Training School
Marks, Mary E., M.A.	Geography
Matthews, Ethel B., M.A.	Education
McChesney, H. F., M.A.	Foreign Languages
McCombs, Mary, M.A.	English
McCrory, Juliet Kay, Ph.M.	Communication and Theatre
McNally, Ann, M.A.	Training School
Mitchell, Lee, Ph.D.	Communication and Theatre
Moore, Earl A., Ph.D.	English and Philosophy
Moore, Willie, M.A.	Geography
Murphy, Earl, Ed.D.	Education
Mutchler, Bradford D., M.A.	University-School Relations
Nalbach, Walter B., M.A.	Industrial Education
Neal, Julia, M.A.	Kentucky Library
Neat, Donald, Ph.D.	History
Page, George V., M.S.	Physics
Page, Tate C., Ed.D.	Education
Parker, L. Evadine, M.A.	Nutrition and Food Science
Pate, Susie, M.A.	Home Economics Education

Perkerson, Gladys, M.A.	Physical Education
Poteet, J. H., Ph.D.	History
Power, Paul E., Ed.D.	Secondary Education
Rabold, Wilma, M.A.	English
Richards, Frances, M.A.	English
Roper, Lois Jane, M.A.	Mathematics
Rose, Claude E., M.M.	Music
Sandefur, P. L., M.A.	Extension
Sherrill, Lisle R., M.A.	Biology
Simmons, Frances, M.A.	Economics
Sleamaker, Robert, Ed.D.	Elementary Education
Sroka, Anthony W., M.Ed..	Industrial Education and Technology
Stephens, H. L., Ph.D.	Biology
Stinson, Sadie, B.S.L.S.	Library
Stith, Mary Emma, M.A.	English
Stonecipher, Sibyl, M.A.	Foreign Languages
Temple, Ruth Hines, M.A.	Art
Thompson, Kelly, M.A., L.L.D.	President Emeritus
Tyler, Sara, M.A.	Library Services
Upton, Jennie F., M.A.	English
Vance, Lula, M.A.	Business Education and Office Administration
Wheat, Max, M.A.	Correspondence Studies
Wilson, Ivan, M.A.	Art
Wilson, O. J., Ed.D.	Communication and Theatre
Wittman, James, Ph.D.	Sociology, Anthropology and Social Work
Wood, Willson E., Ph.D.	English
Wright, Bernice, M.A.	Mathematics
Yarbrough, H. M., Ph.D.	Mathematics
Yeager, Randolph O., Ph.D.	Economics
Yokley, Ratha L., Ph.D.	Sociology, Anthropology and Social Work

REHABILITATION ACT OF 1973 AS AMENDED IN 1974

Nondiscrimination on the Basis of Handicap

Section 504 for the Rehabilitation Act of 1973, as amended in 1974, provides that no qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity which receives or benefits from federal financial assistance.

Accordingly, Western Kentucky University does not discriminate against otherwise qualified handicapped persons in its education programs, admissions or employment practices. Any person having inquiries concerning Western Kentucky University's compliance with these requirements may contact the following person who has been designated by the university president to coordinate the university's efforts to comply:

Mr. Rhea P. Lazarus, Staff Assistant
Office of the President
Wetherby Administration Building
Western Kentucky University
Bowling Green, Kentucky 42101
Phone: 745-3841

TITLE IX

Title IX of the Education Amendments of 1972 requires that Western Kentucky University not discriminate on the basis of sex in its educational programs, admissions, employment practices, and activities which it operates. It is the policy of Western Kentucky University to comply with this requirement.

Any person having inquiries concerning Western Kentucky University's compliance with Title IX may contact the following persons who have been designated by the University President to coordinate Western's efforts to comply with Title IX:

Dr. John D. Minton
Vice President for Administrative Affairs
Wetherby Administration Building, 207E
Western Kentucky University
Telephone 745-2434

Dr. Faye Robinson
Associate Dean for Instruction
Wetherby Administration Building, 218
Western Kentucky University
Telephone 745-2296

Inquiries about Title IX requirements may also be made to the Director, Office for Civil Rights, U. S. Department of Health, Education, and Welfare, Washington, D. C. 20201.

Western Kentucky University is an Equal Opportunity University.

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